

## Appendix A

### RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: TVBUDDY

Trade Mark: N/A

Test Model: 30354

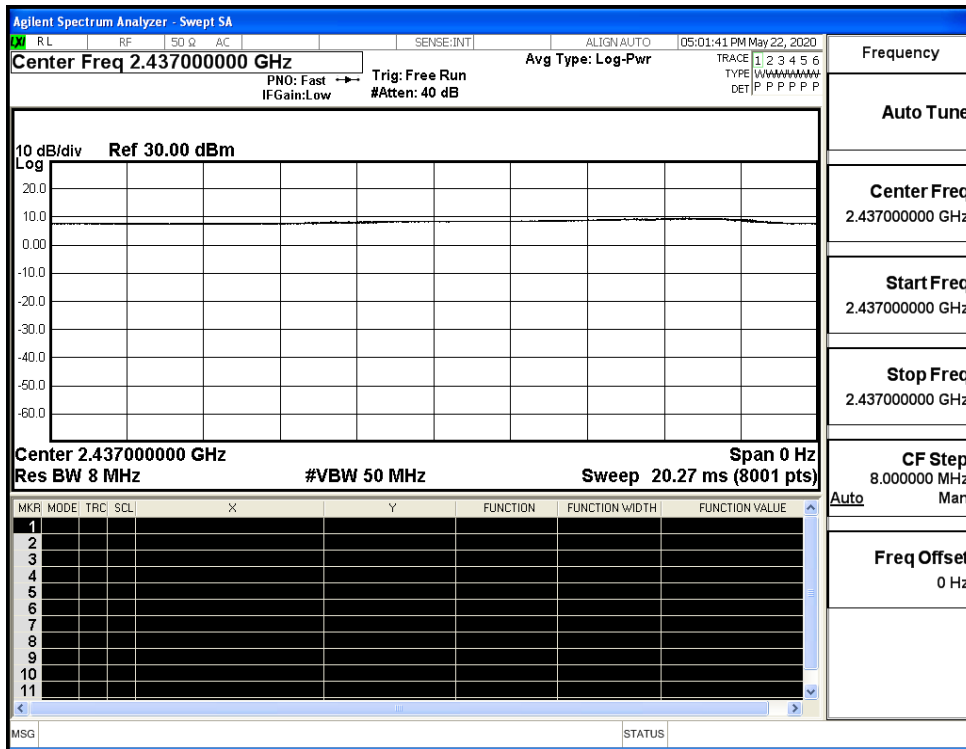
#### Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	David.Luo
Supervised by:	Li Huan

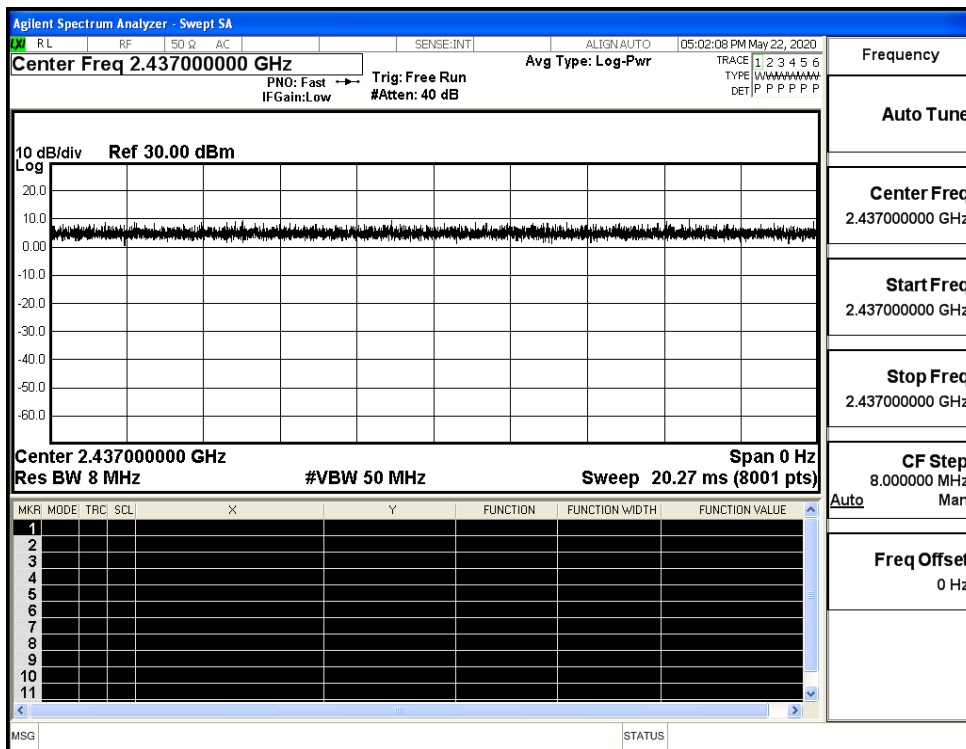
#### A.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20SISO	2437	Ant1	100	PASS
11N40SISO	2437	Ant1	100	PASS

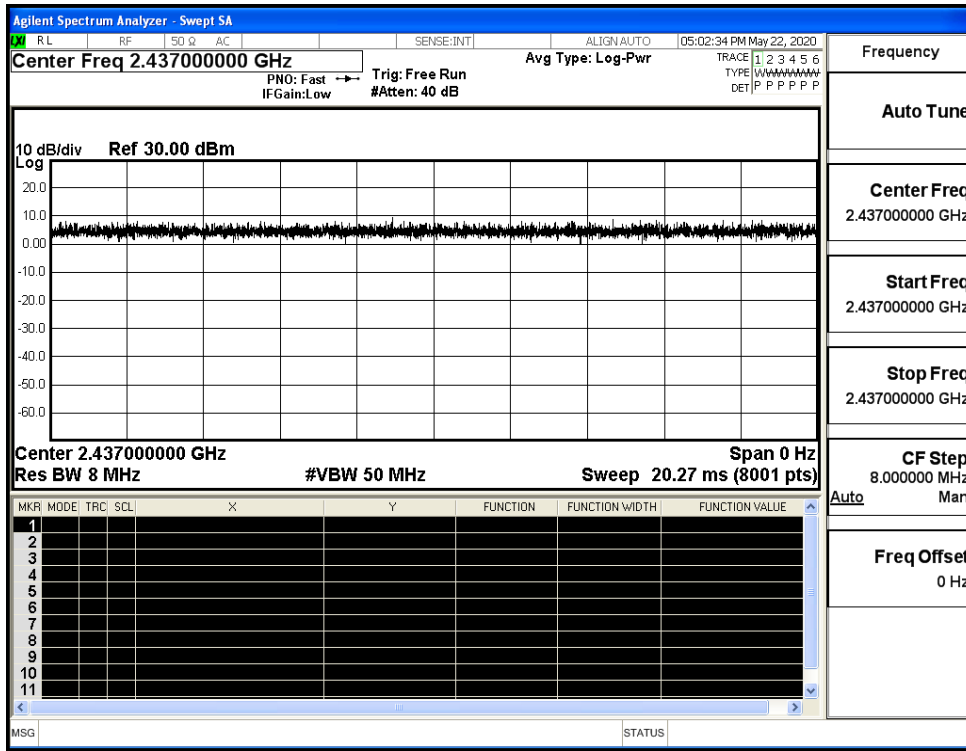
Duty Cycle\_11B\_2437\_Ant1



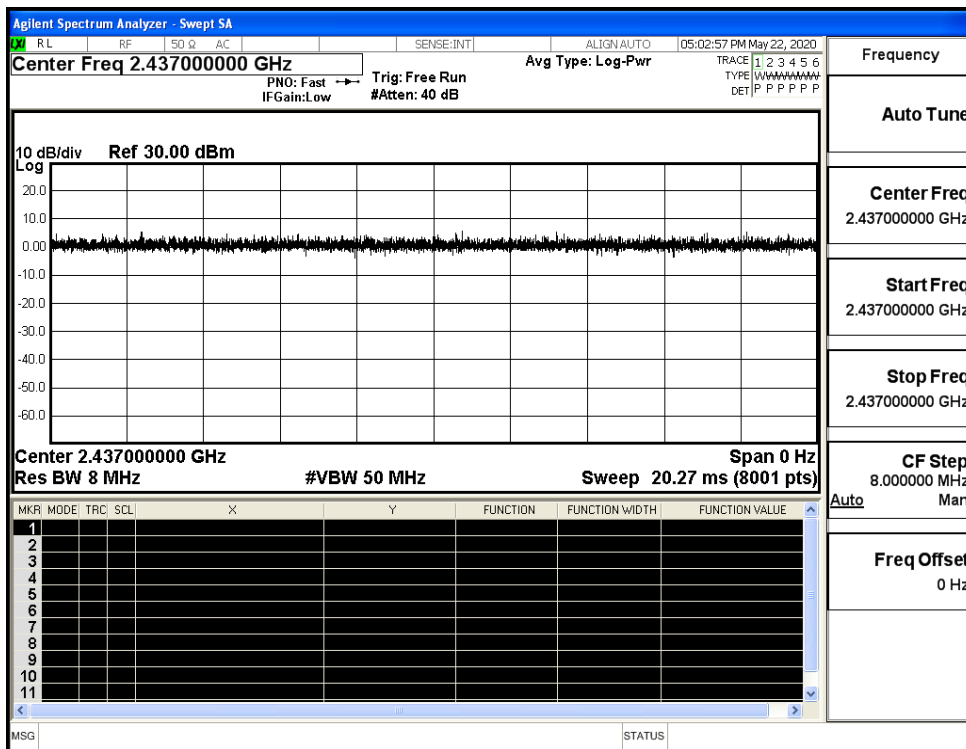
Duty Cycle\_11G\_2437\_Ant1



Duty Cycle\_11N20SISO\_2437\_Ant1



Duty Cycle\_11N40SISO\_2437\_Ant1



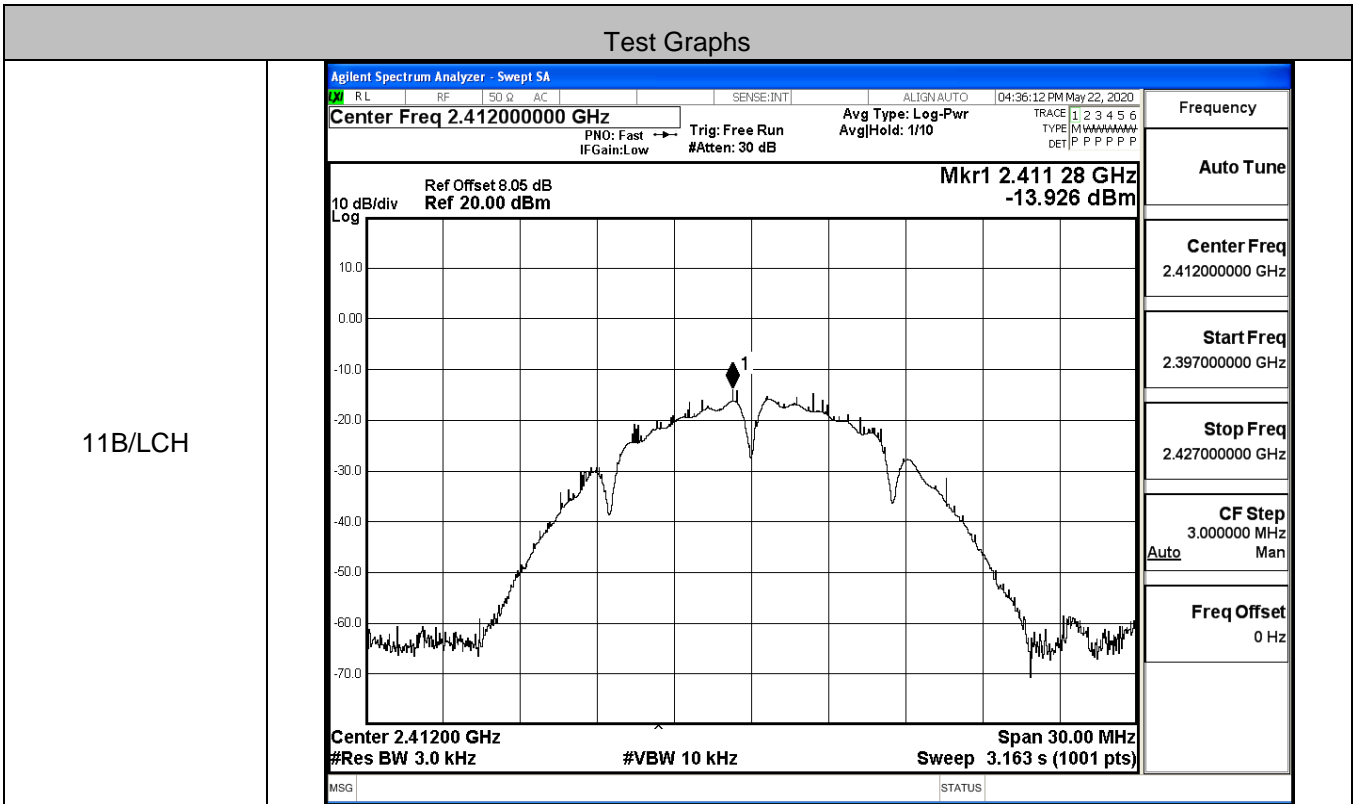
**A.2 Maximum Conducted Output Power**

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	14.2	30	PASS
	MCH	15.19	30	PASS
	HCH	14.62	30	PASS
11G	LCH	16.89	30	PASS
	MCH	17.81	30	PASS
	HCH	17.5	30	PASS
11N20SISO	LCH	16.59	30	PASS
	MCH	17.71	30	PASS
	HCH	17.16	30	PASS
11N40SISO	LCH	17.37	30	PASS
	MCH	18.14	30	PASS
	HCH	17.45	30	PASS

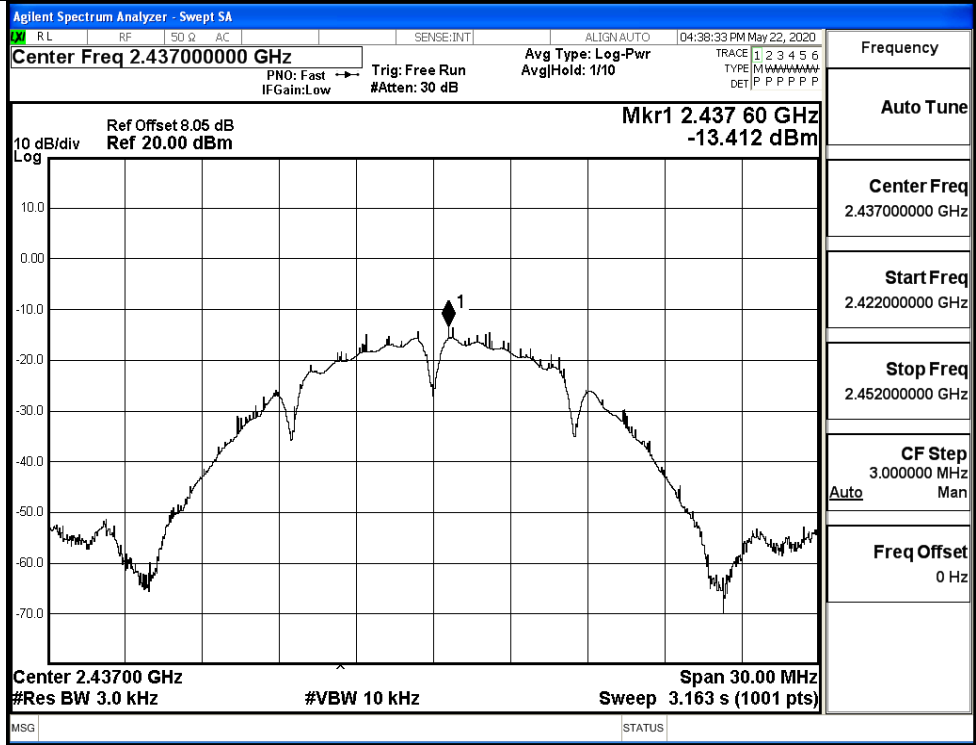
### A.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-13.926	8	PASS
	MCH	-13.412	8	PASS
	HCH	-12.717	8	PASS
11G	LCH	-17.317	8	PASS
	MCH	-16.944	8	PASS
	HCH	-16.760	8	PASS
11N20SISO	LCH	-17.364	8	PASS
	MCH	-17.260	8	PASS
	HCH	-17.797	8	PASS
11N40SISO	LCH	-16.050	8	PASS
	MCH	-19.065	8	PASS
	HCH	-15.172	8	PASS

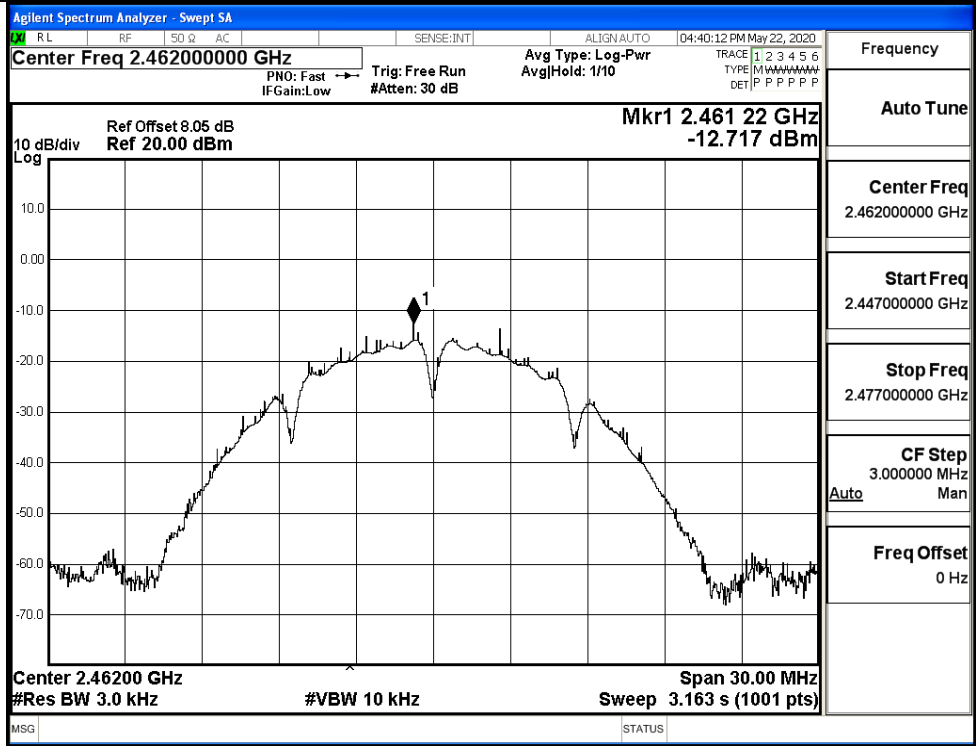
#### Test Graphs



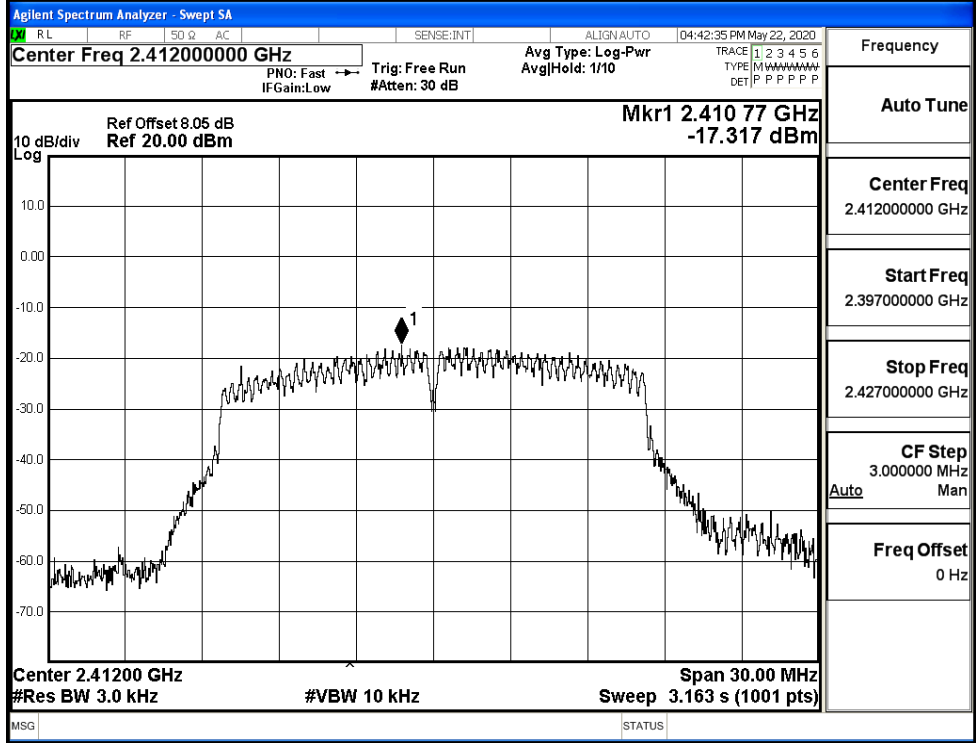
11B/MCH



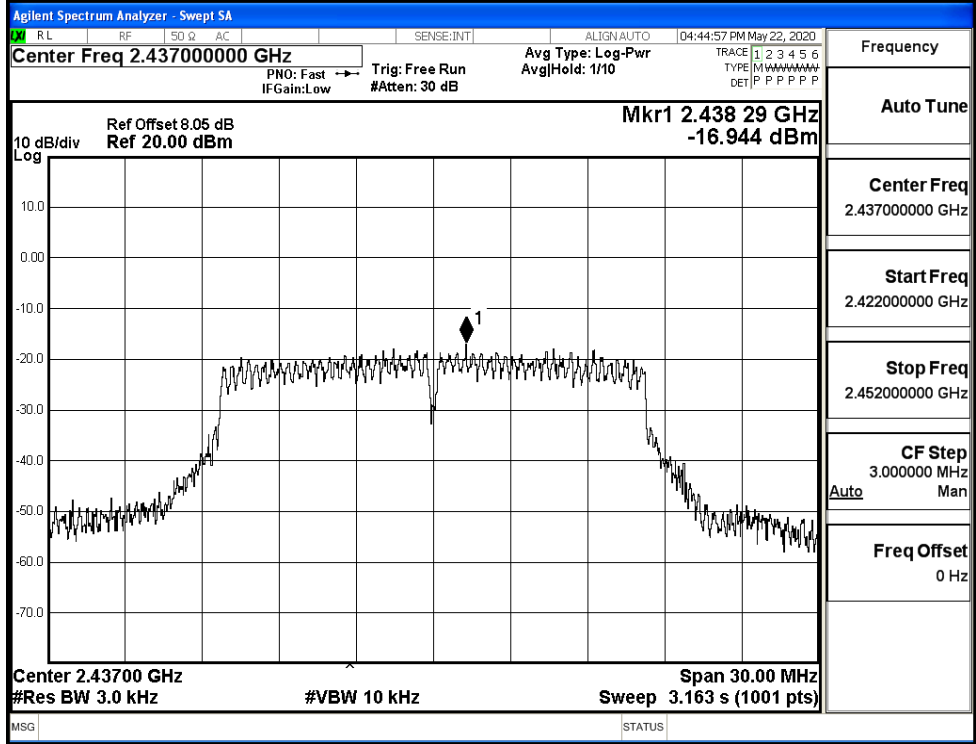
11B/HCH



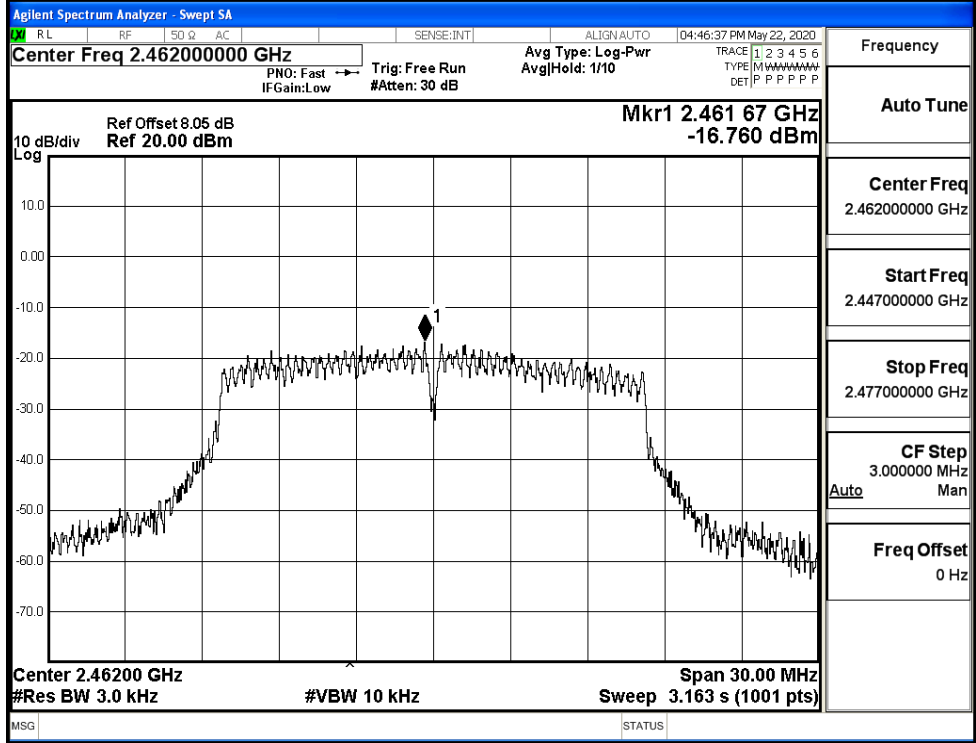
11G/LCH



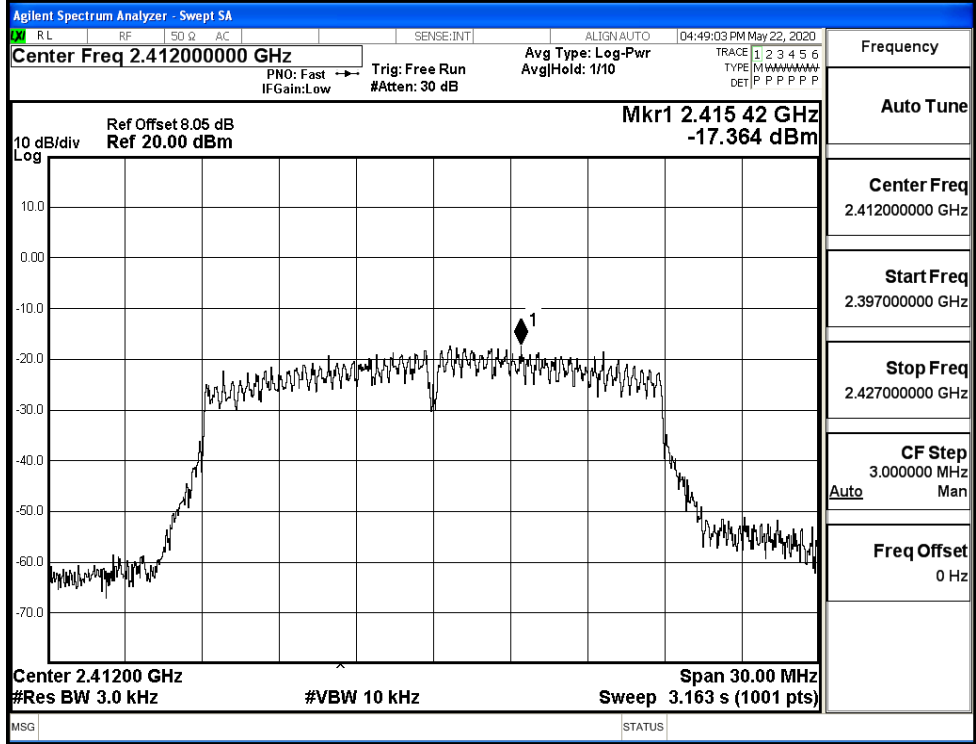
11G/MCH



11G/HCH

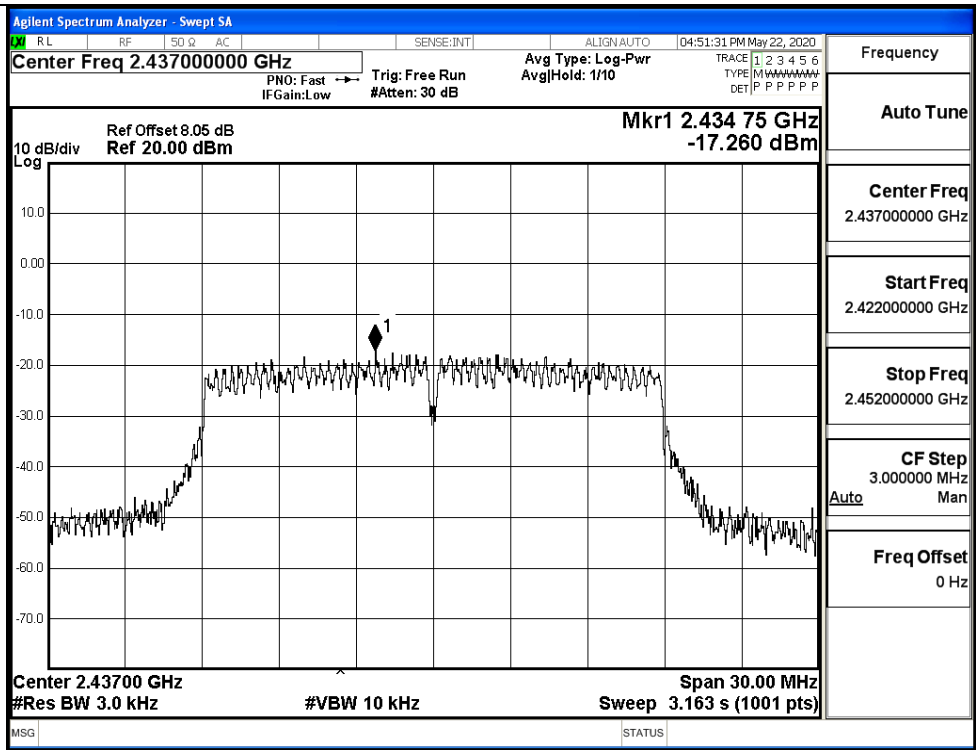


11N20SISO/LCH

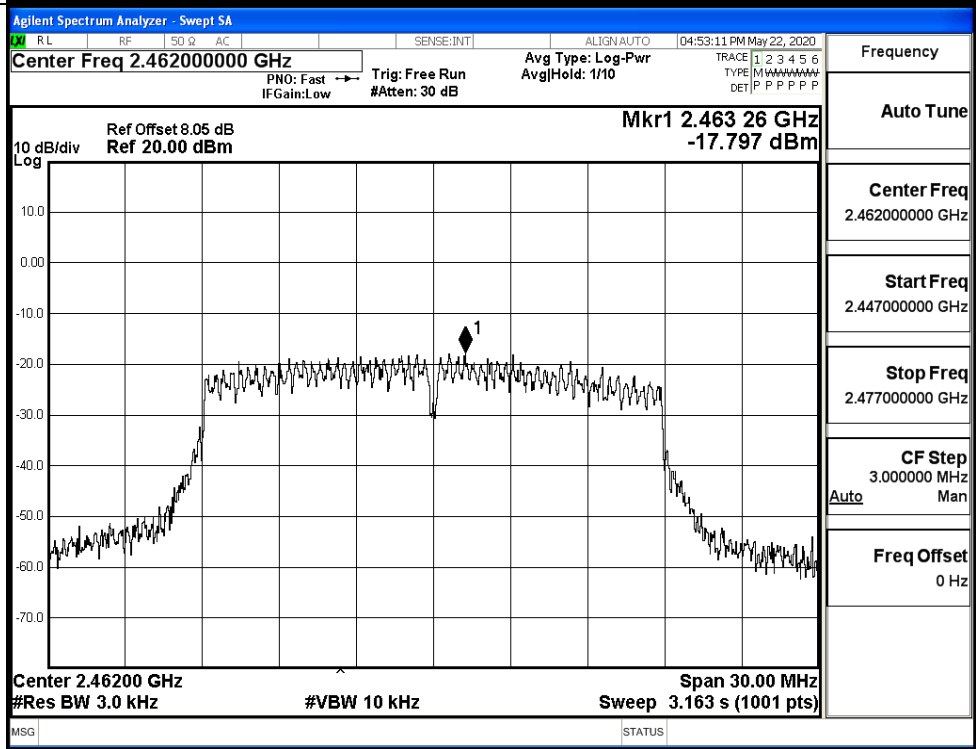




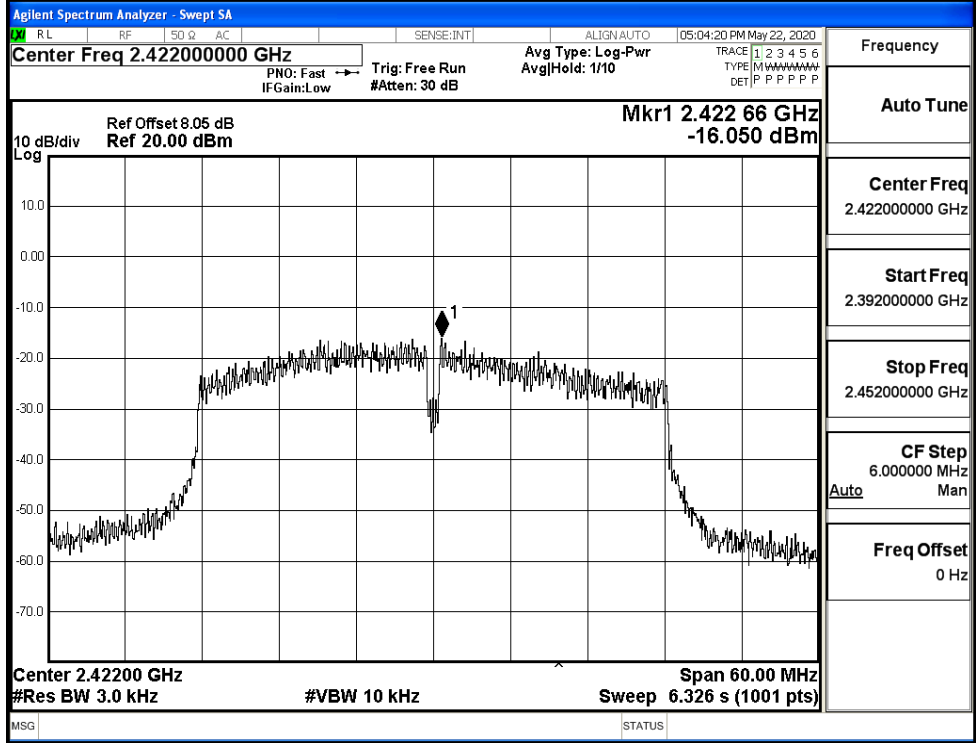
11N20SISO/MCH



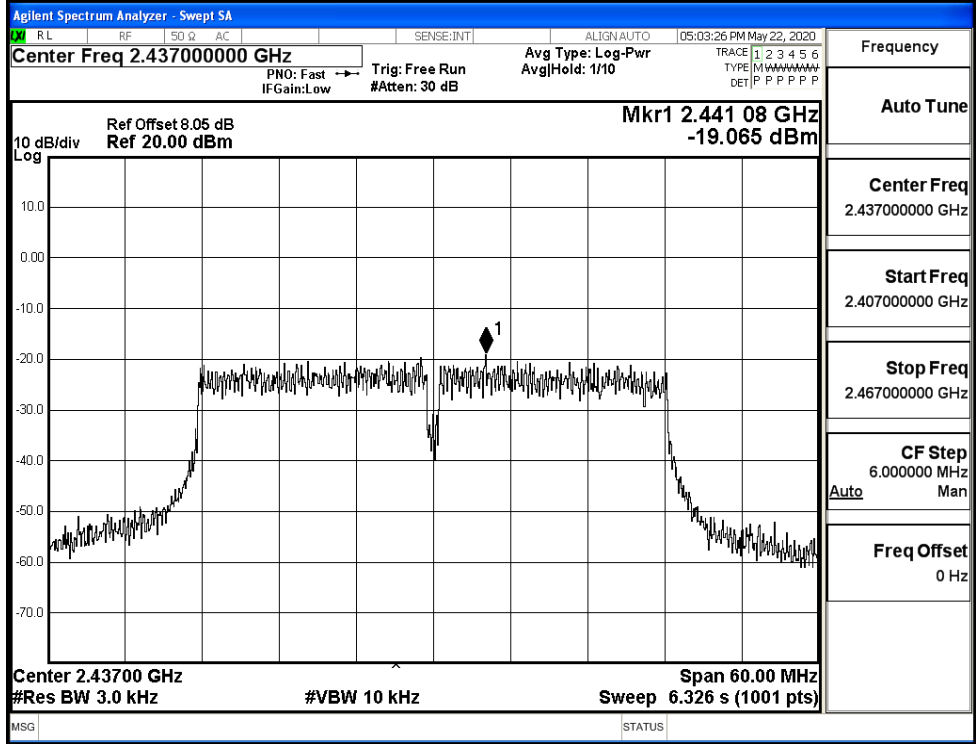
11N20SISO/HCH



11N40SISO/LCH



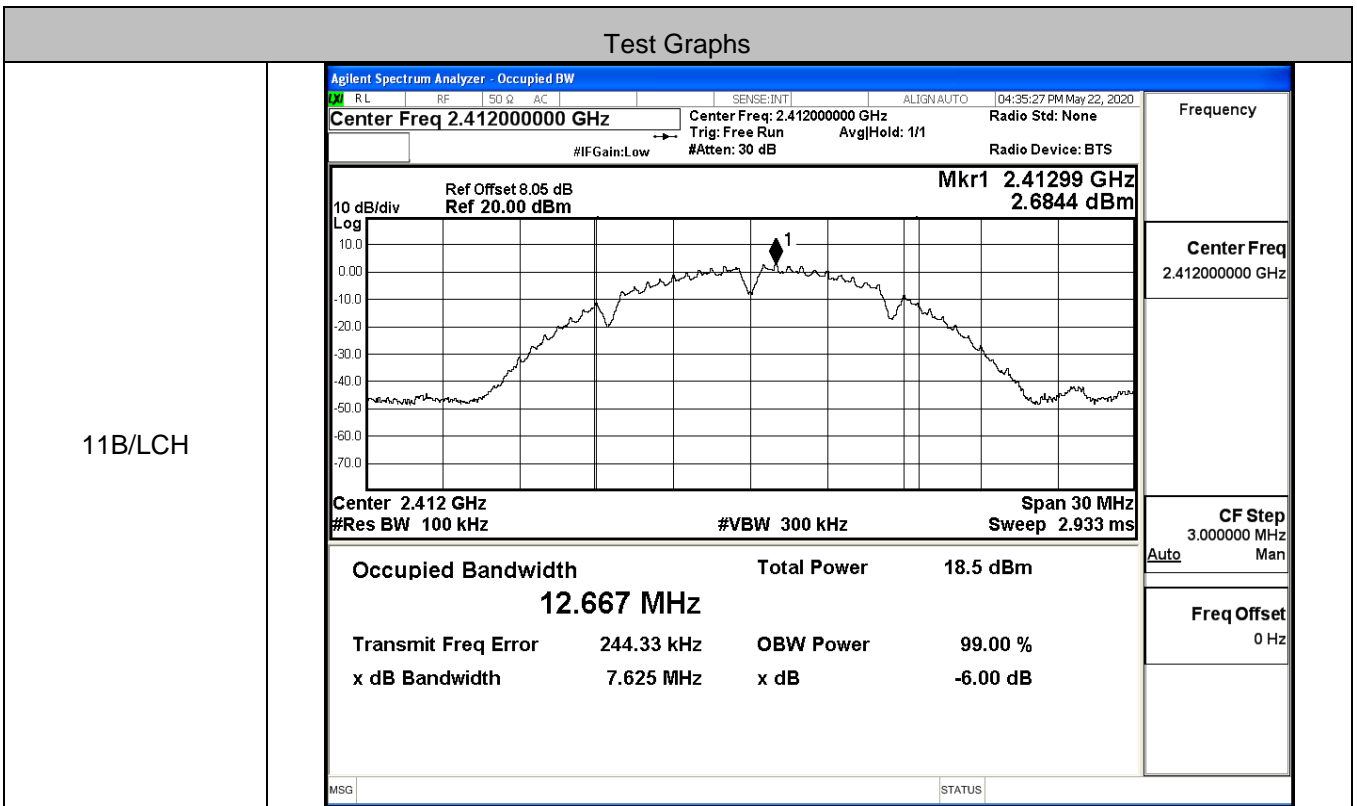
11N40SISO/MCH



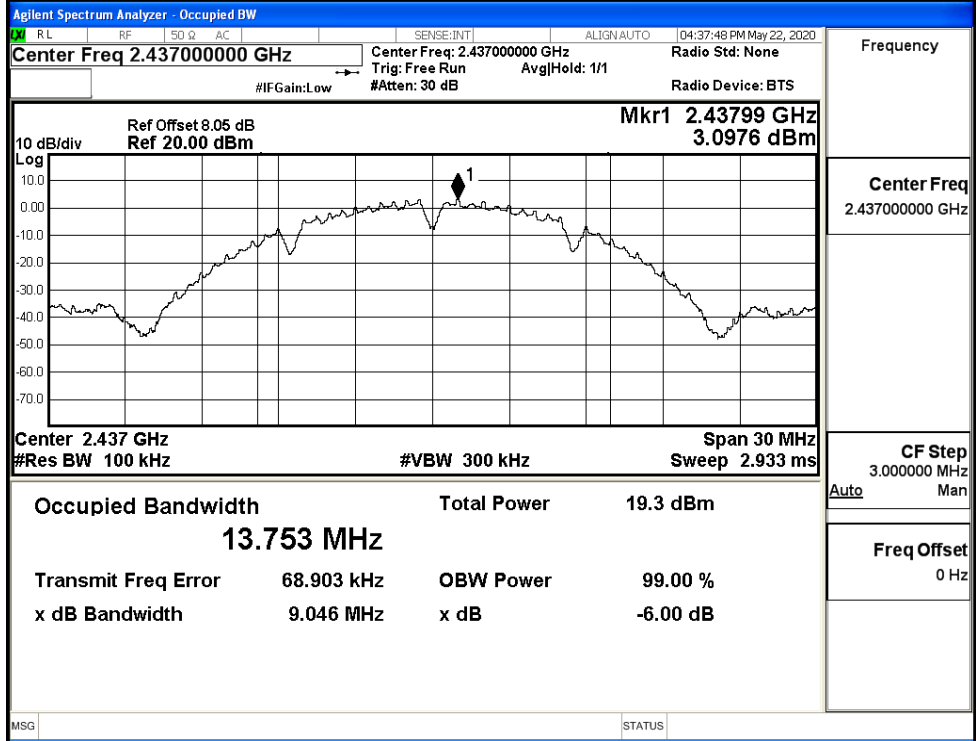


**A.4 6dB Bandwidth**

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	7.625	≥0.5	PASS
	MCH	9.046	≥0.5	PASS
	HCH	8.567	≥0.5	PASS
11G	LCH	13.87	≥0.5	PASS
	MCH	15.55	≥0.5	PASS
	HCH	15.13	≥0.5	PASS
11N20SISO	LCH	12.65	≥0.5	PASS
	MCH	15.98	≥0.5	PASS
	HCH	15.13	≥0.5	PASS
11N40SISO	LCH	27.59	≥0.5	PASS
	MCH	36.05	≥0.5	PASS
	HCH	28.84	≥0.5	PASS

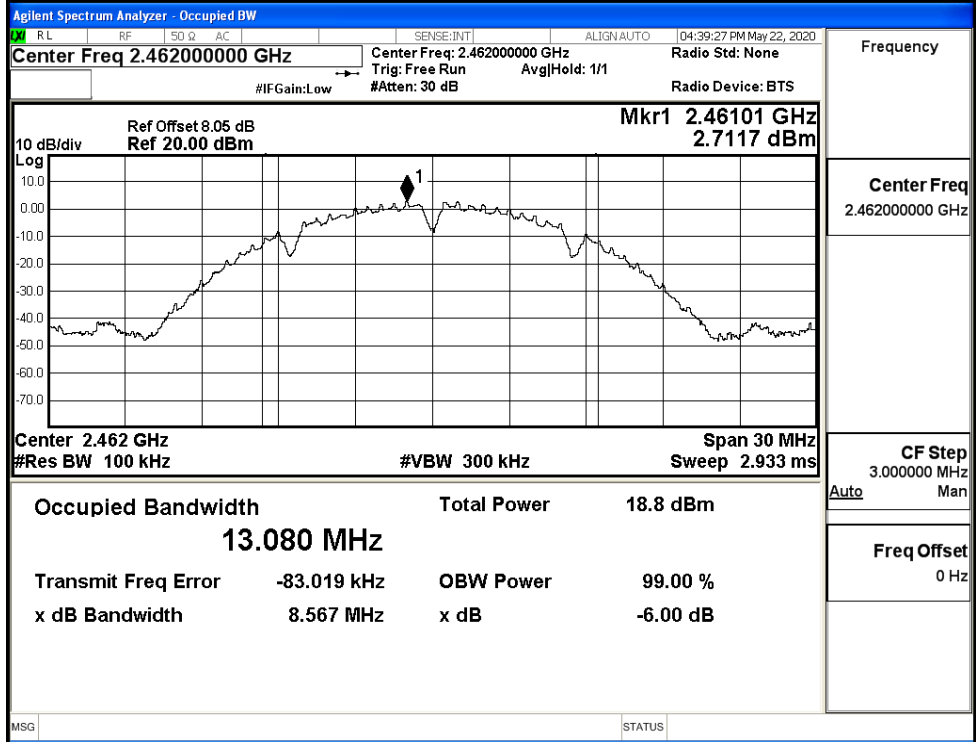


11B/MCH



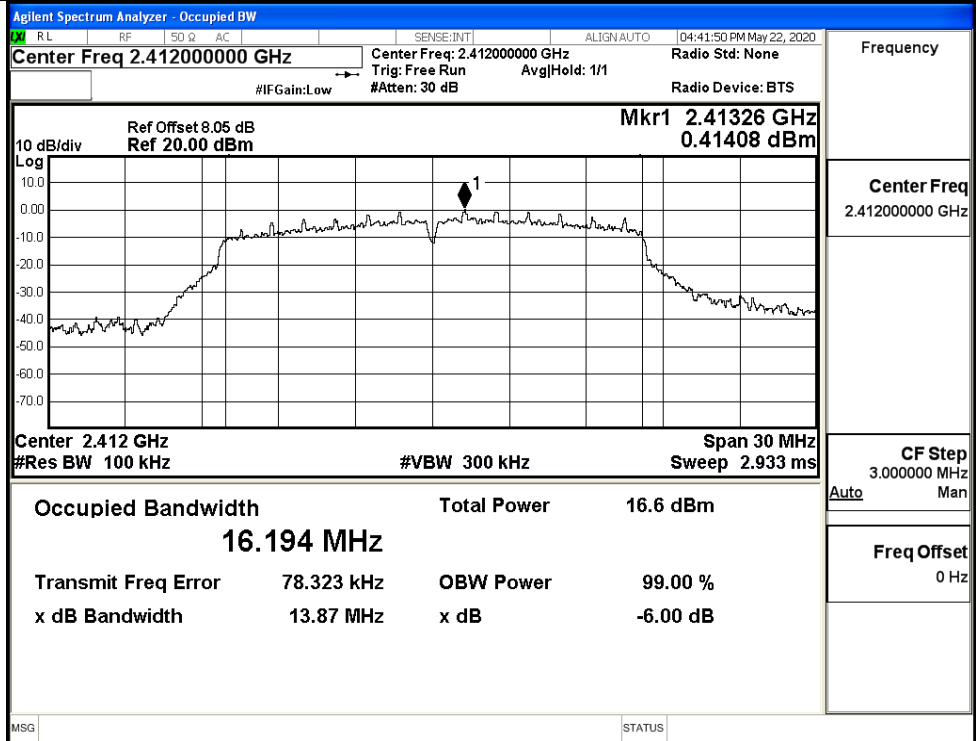
Frequency	2.43700000 GHz
Center Freq	2.43700000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

11B/HCH

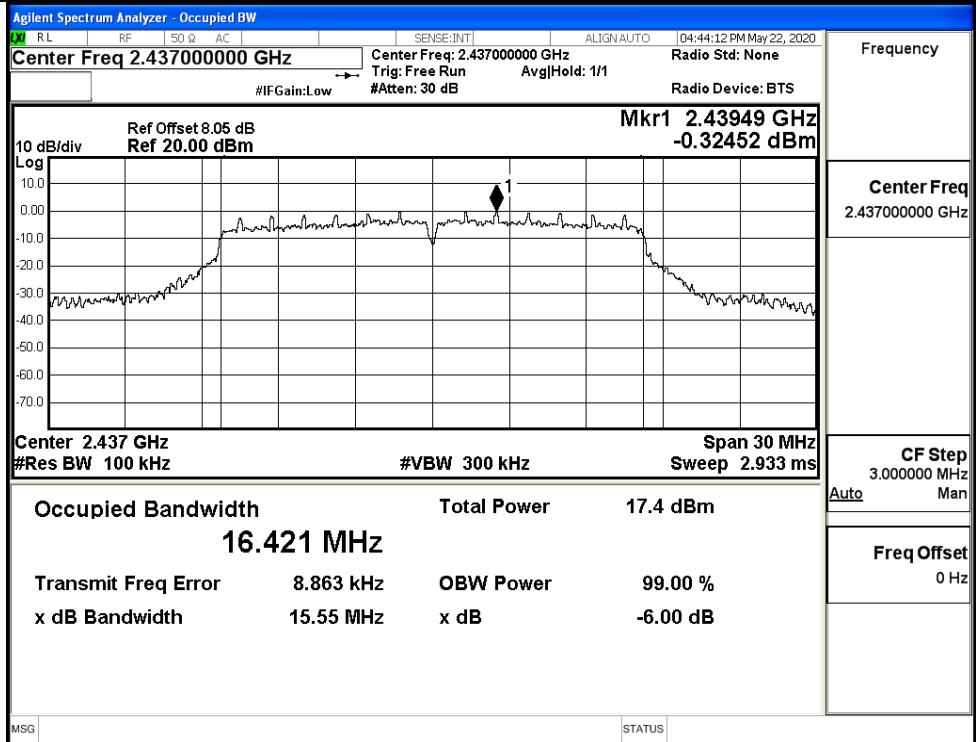


Frequency	2.46200000 GHz
Center Freq	2.46200000 GHz
CF Step	3.000000 MHz
Auto	Man
Freq Offset	0 Hz

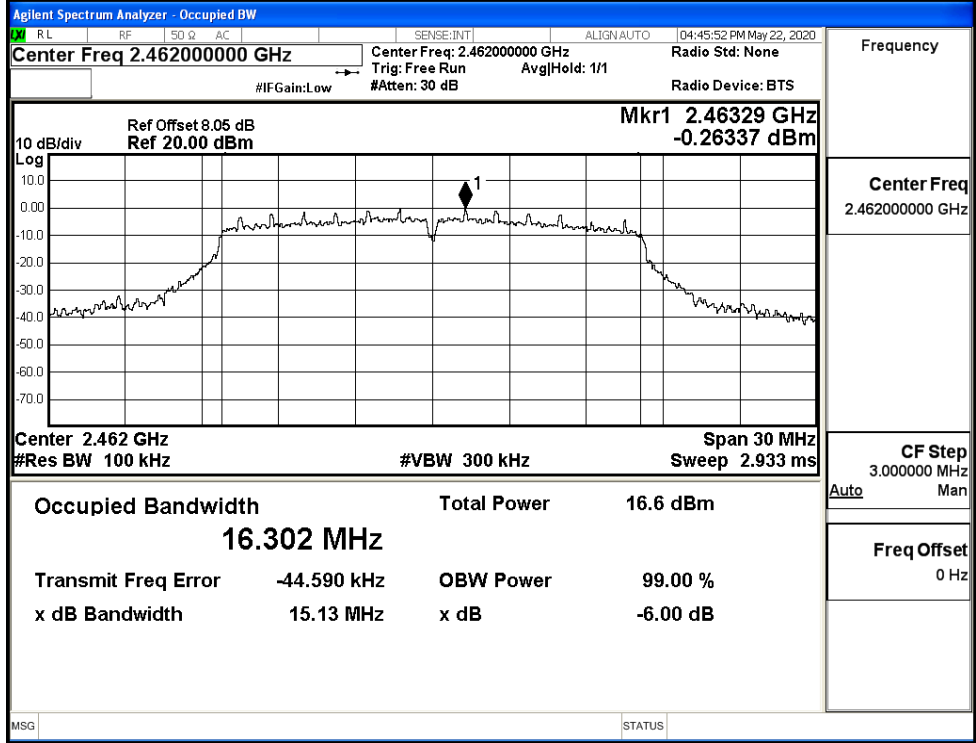
11G/LCH



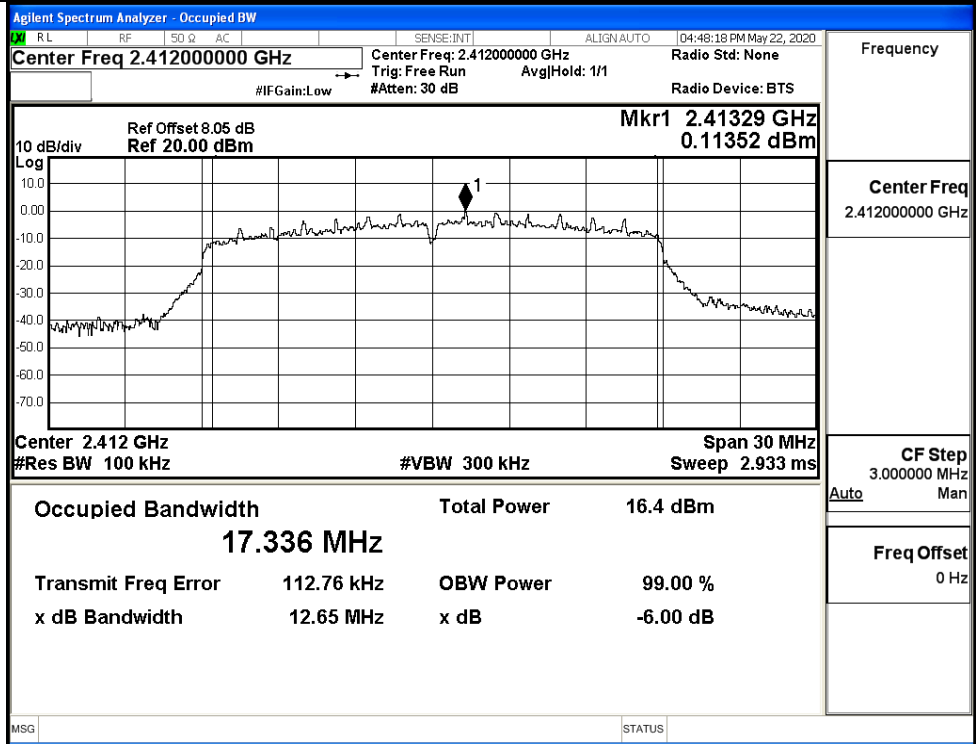
11G/MCH



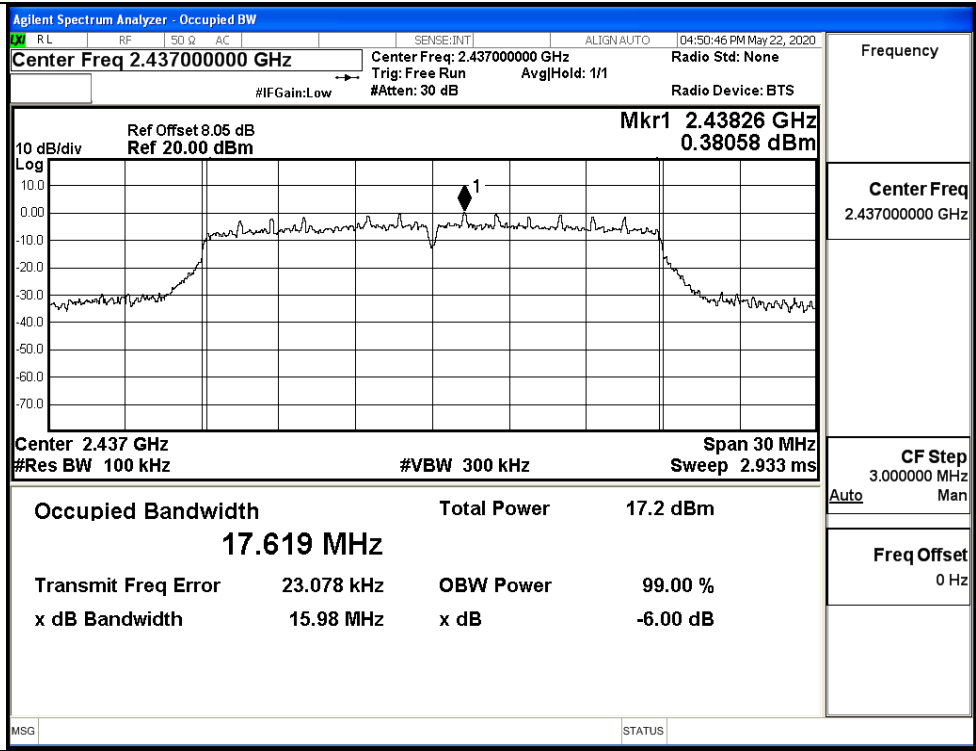
11G/HCH



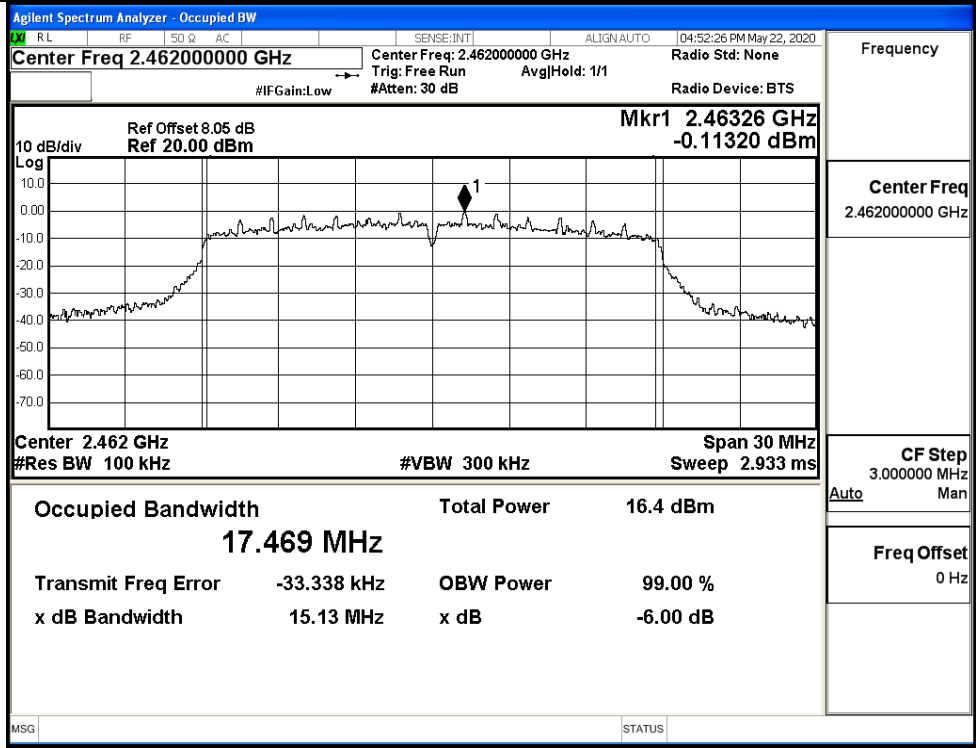
11N20SISO/LCH



11N20SISO/MCH

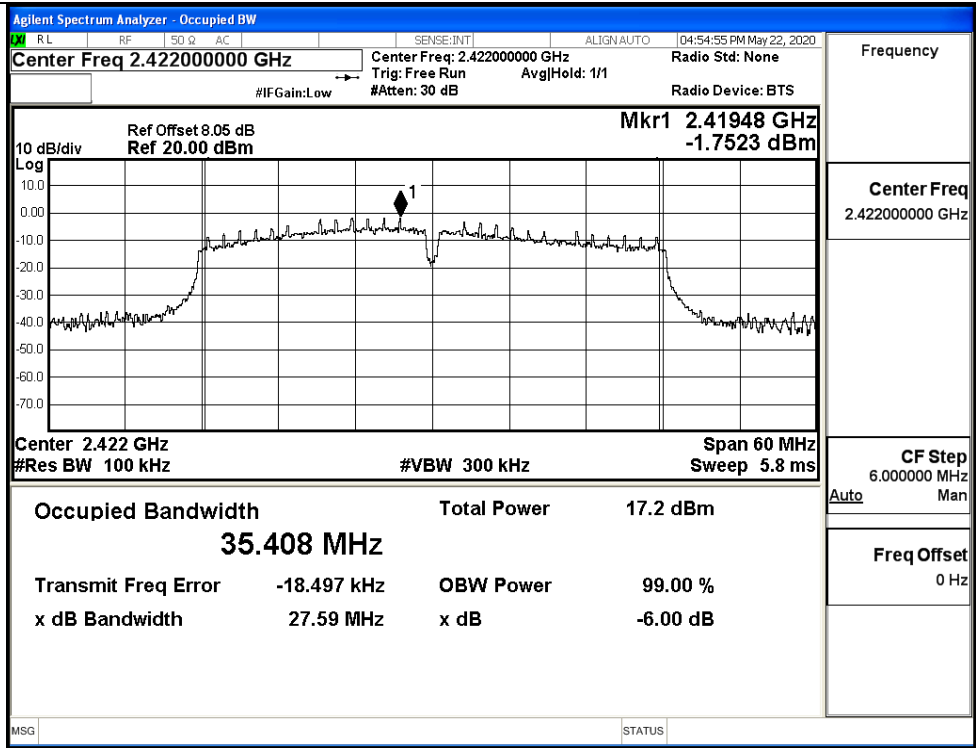


11N20SISO/HCH





11N40SISO/LCH

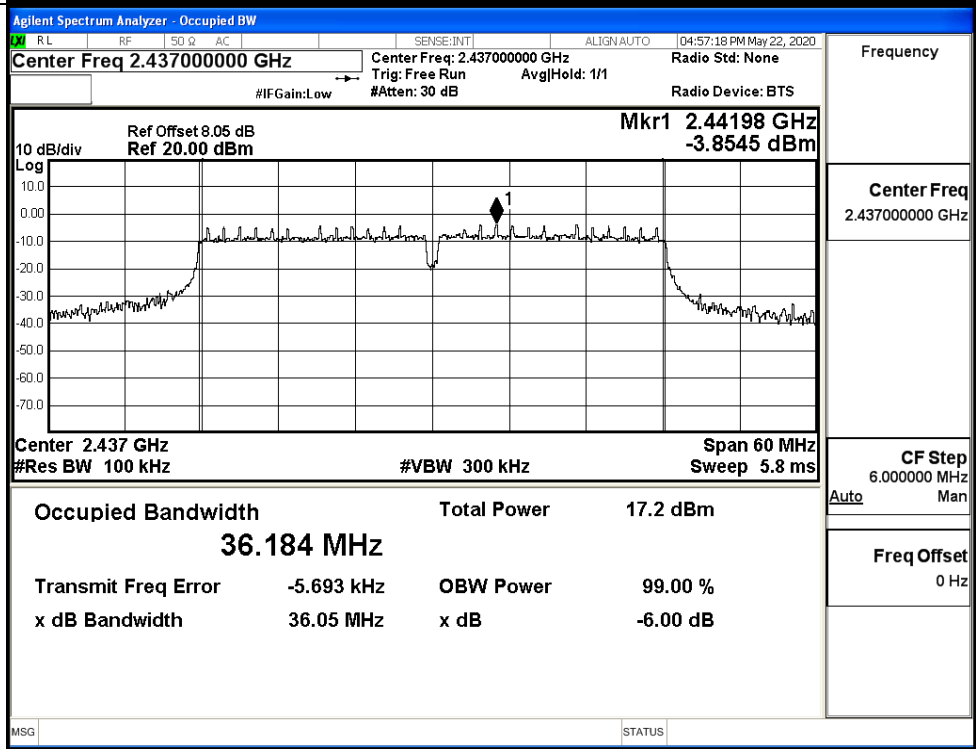


Frequency  
2.42200000 GHz

CF Step  
6.000000 MHz  
Auto Man

Freq Offset  
0 Hz

11N40SISO/MCH

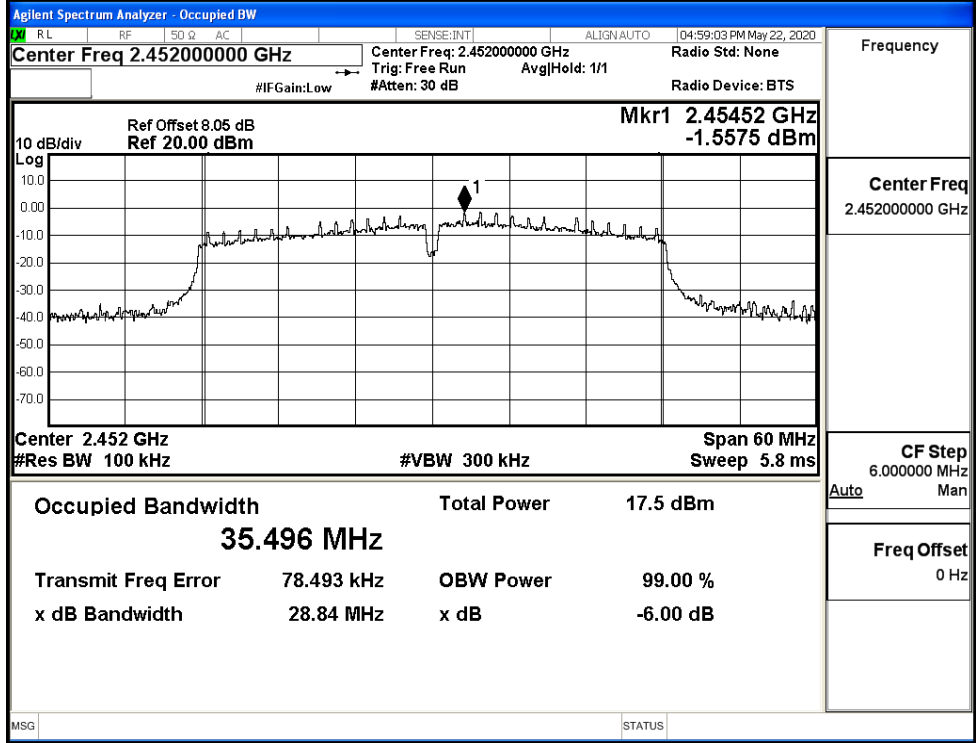


Frequency  
2.43700000 GHz

CF Step  
6.000000 MHz  
Auto Man

Freq Offset  
0 Hz

11N40SISO/HCH

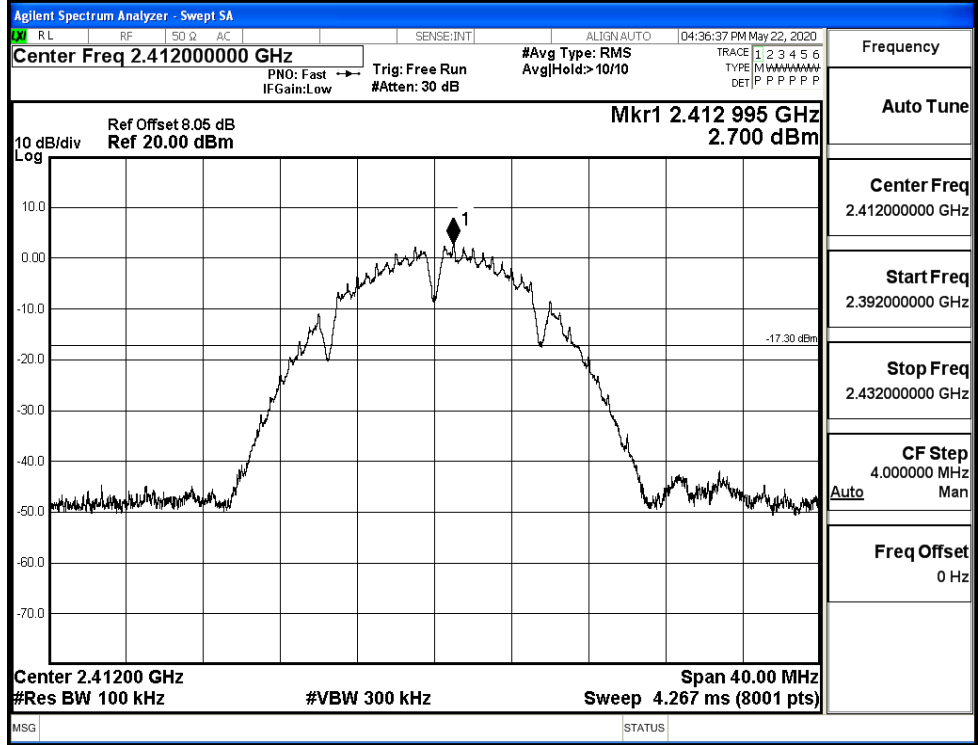


**A.5 RF Conducted Spurious Emissions**

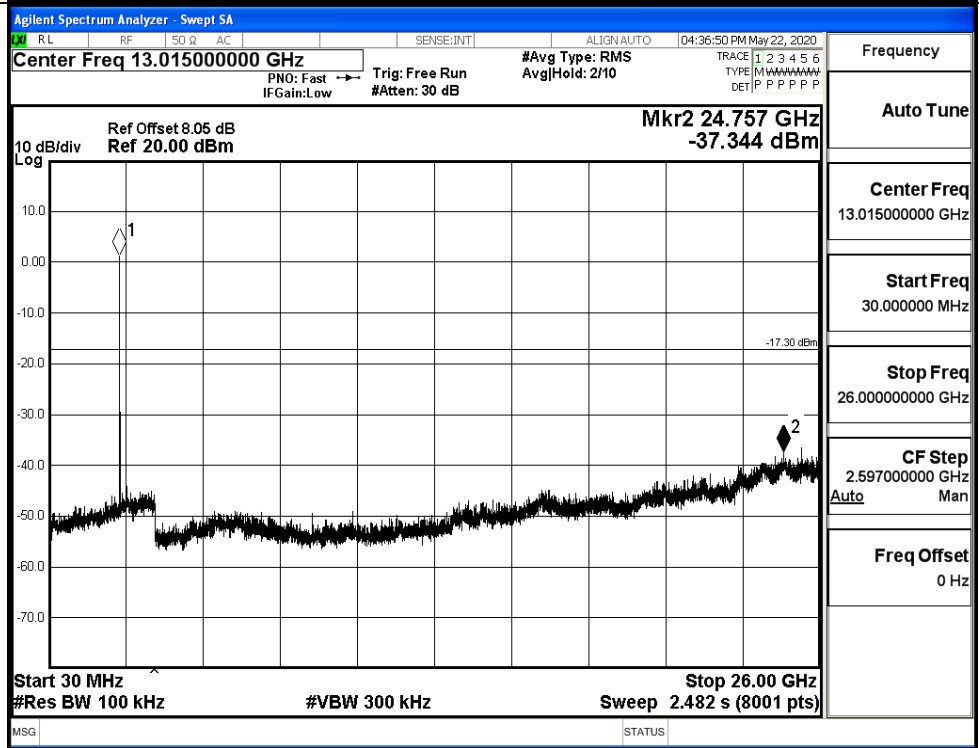
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	2.7	-37.344	-17.300	PASS
	MCH	3.096	-38.338	-16.904	PASS
	HCH	2.698	-37.902	-17.302	PASS
11G	LCH	0.233	-37.976	-19.767	PASS
	MCH	0.003	-37.679	-19.997	PASS
	HCH	0.115	-37.159	-19.885	PASS
11N20 SISO	LCH	0.139	-37.828	-19.861	PASS
	MCH	0.178	-37.924	-19.822	PASS
	HCH	-0.748	-37.792	-20.748	PASS
11N40 SISO	LCH	-1.89	-37.677	-21.890	PASS
	MCH	-3.757	-36.098	-23.757	PASS
	HCH	-1.71	-35.979	-21.710	PASS

11B\_LCH\_Graphs

Pref/11B/LCH

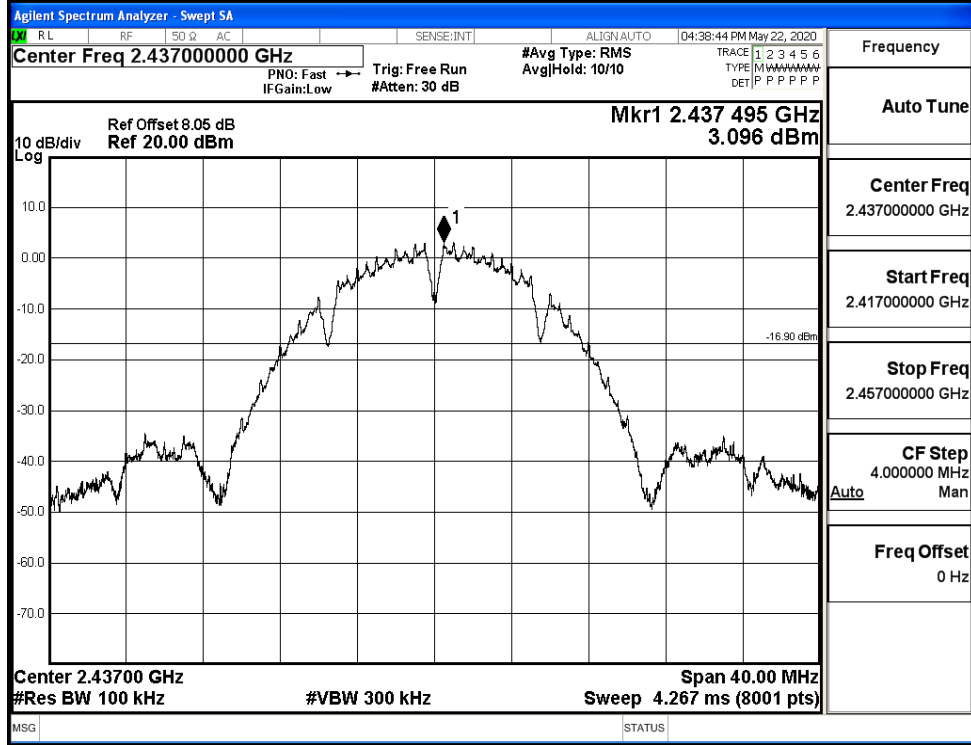


Puw/11B/LCH

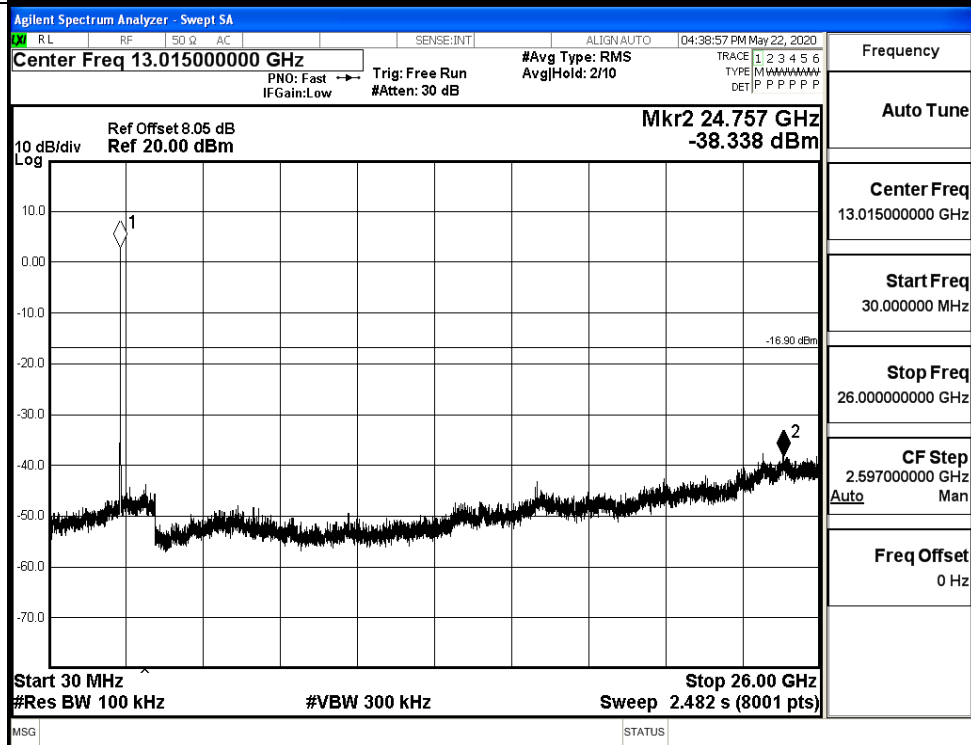


11B\_MCH\_Graphs

Pref/11B/MCH

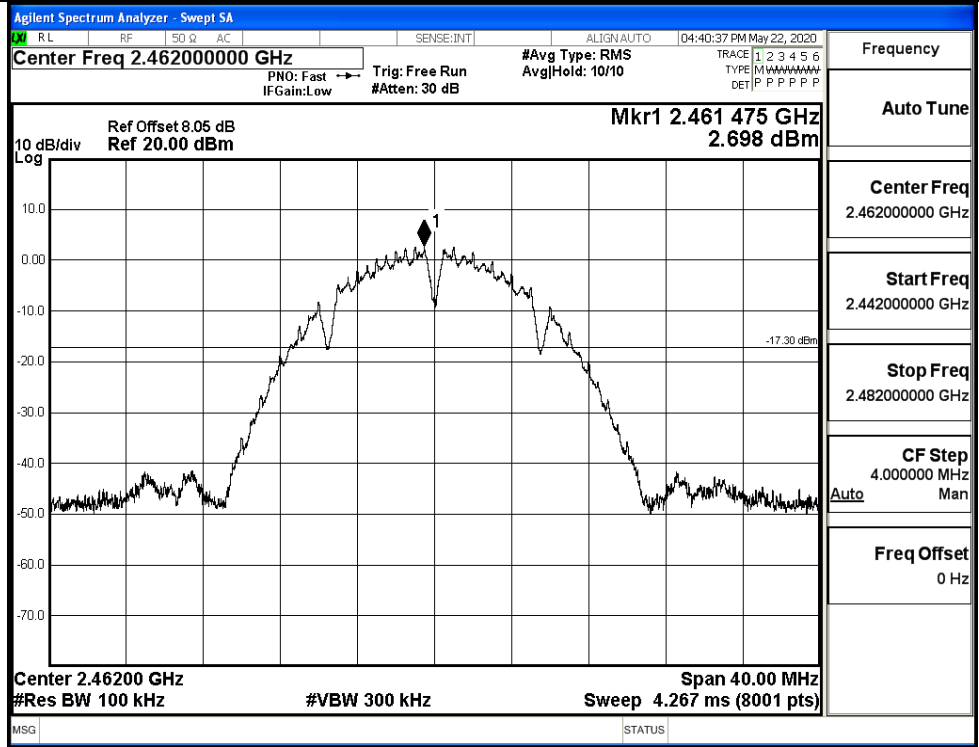


Puw/11B/MCH

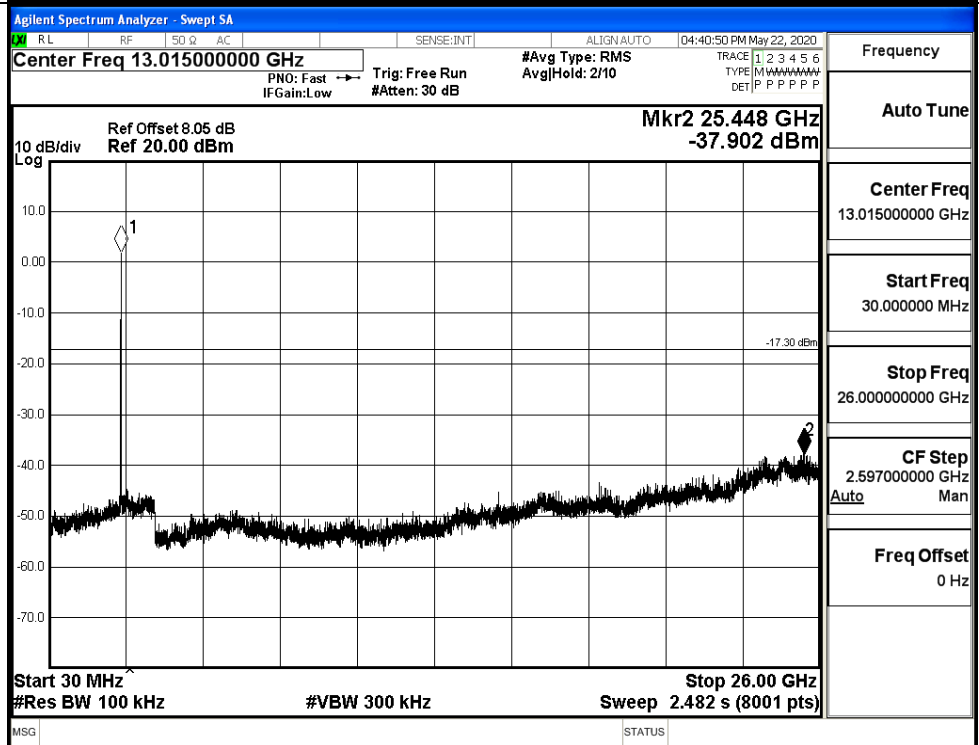


11B\_HCH\_Graphs

Pref/11B/HCH

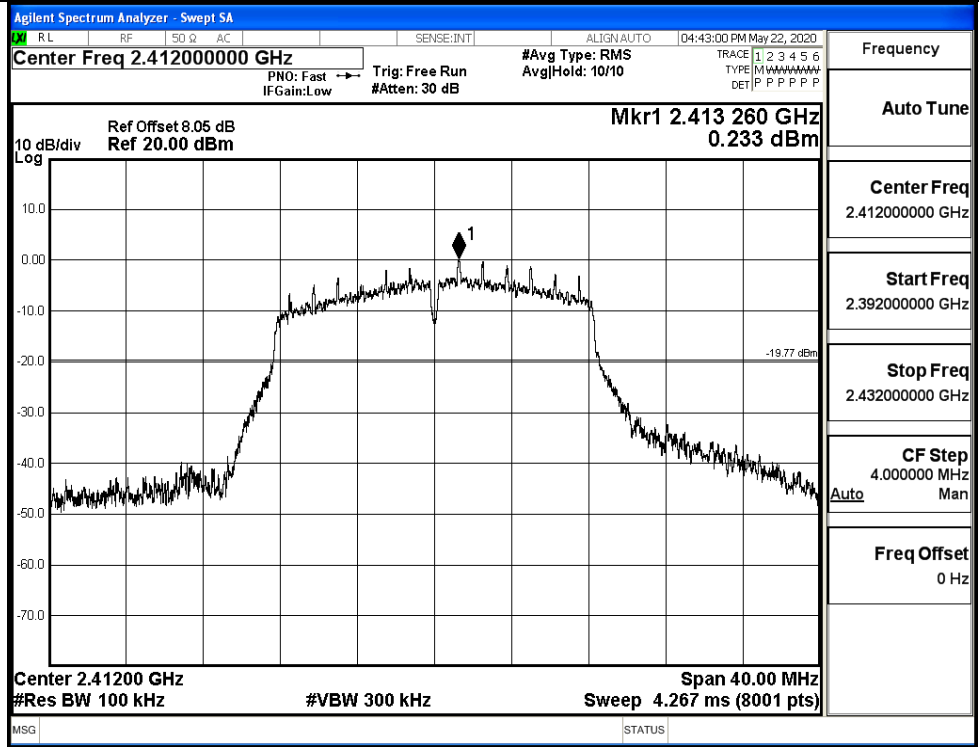


Puw/11B/HCH

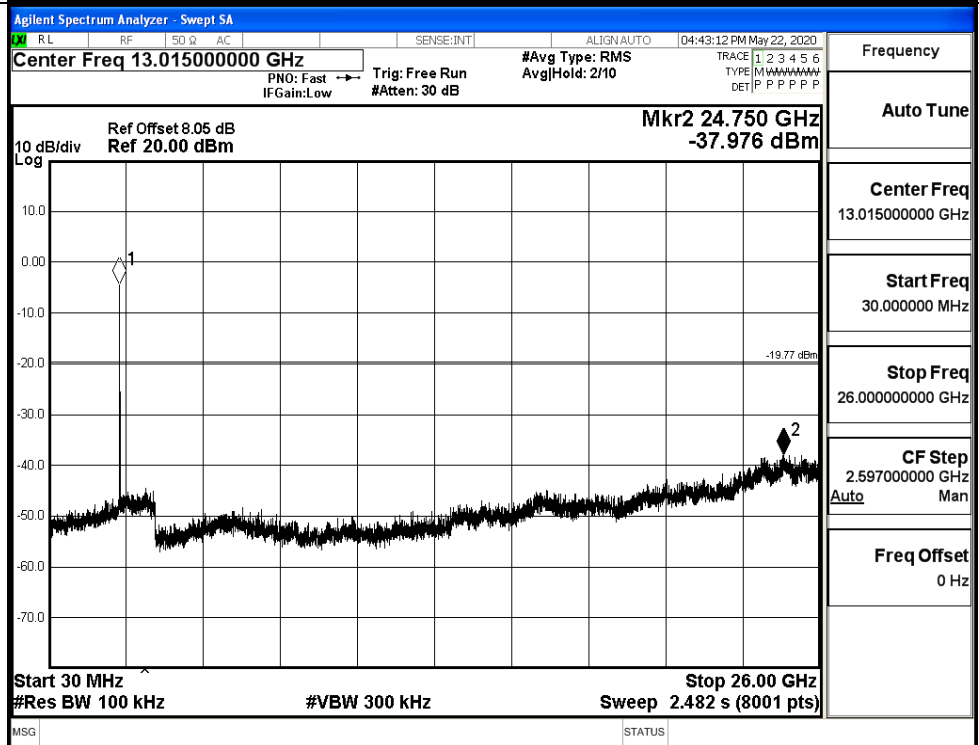


11G\_LCH\_Graphs

Pref/11G/LCH

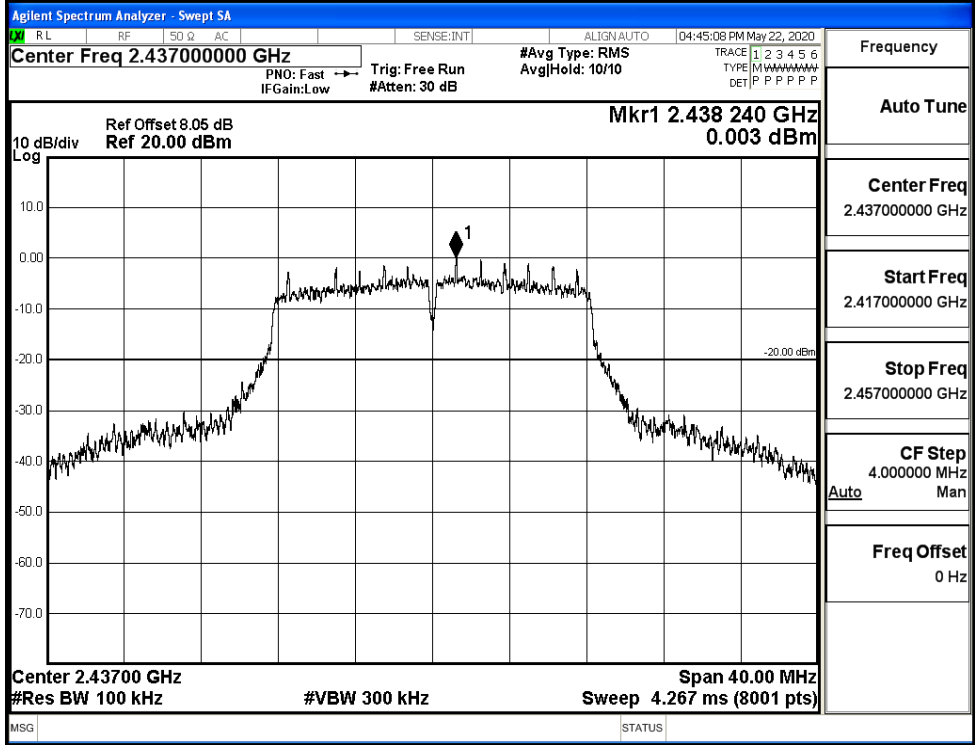


Puw/11G/LCH

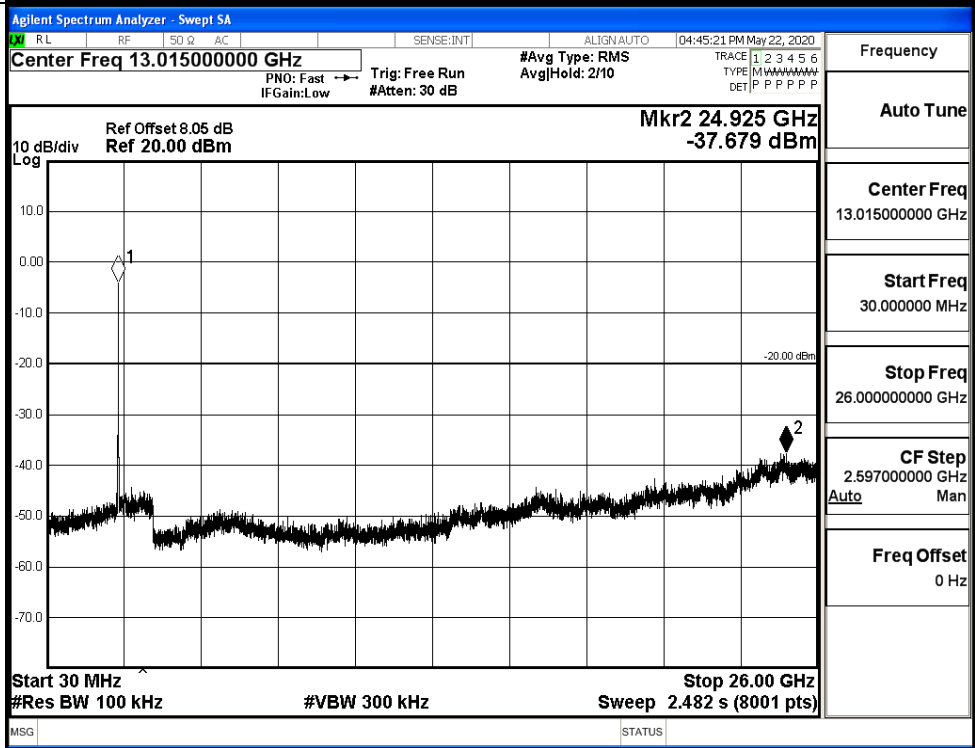


11G\_MCH\_Graphs

Pref/11G/MCH



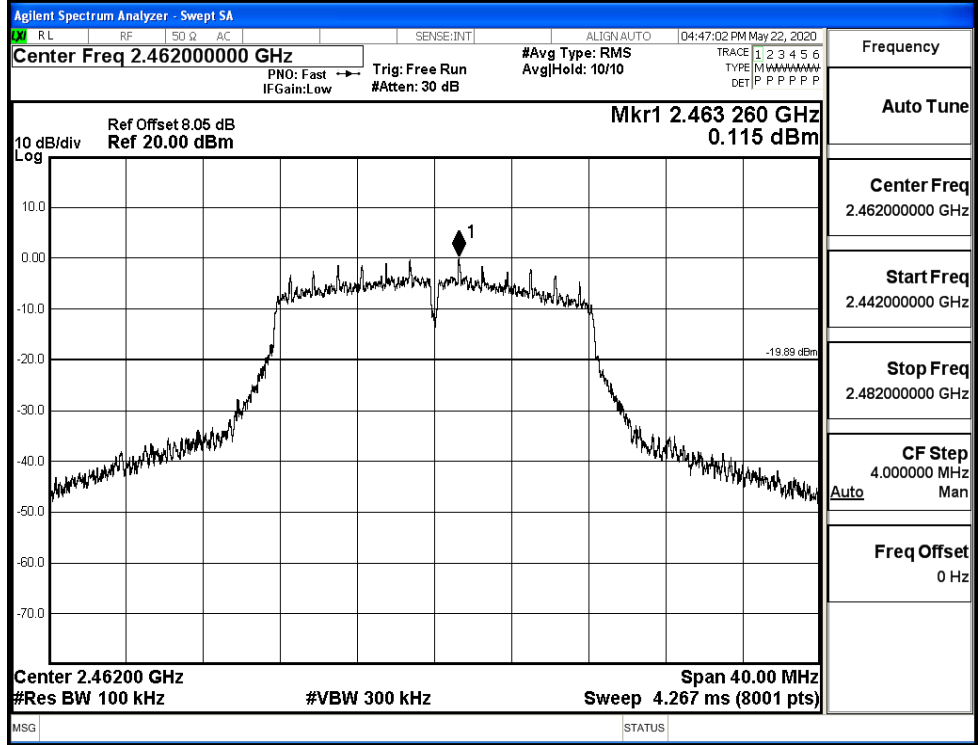
Puw/11G/MCH



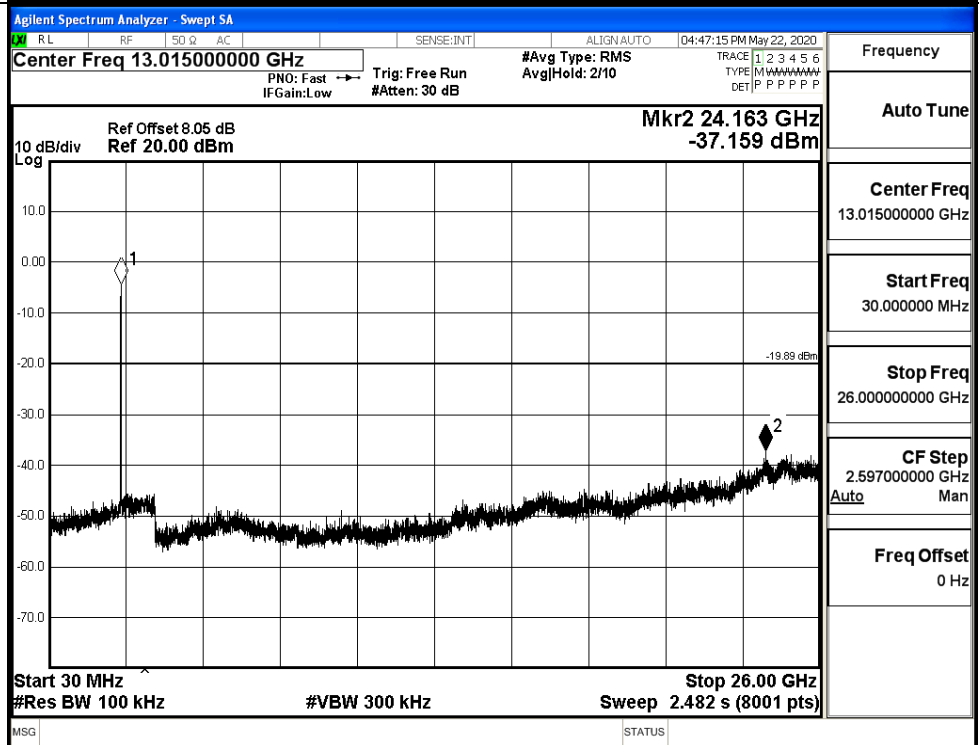


11G\_HCH\_Graphs

Pref/11G/HCH

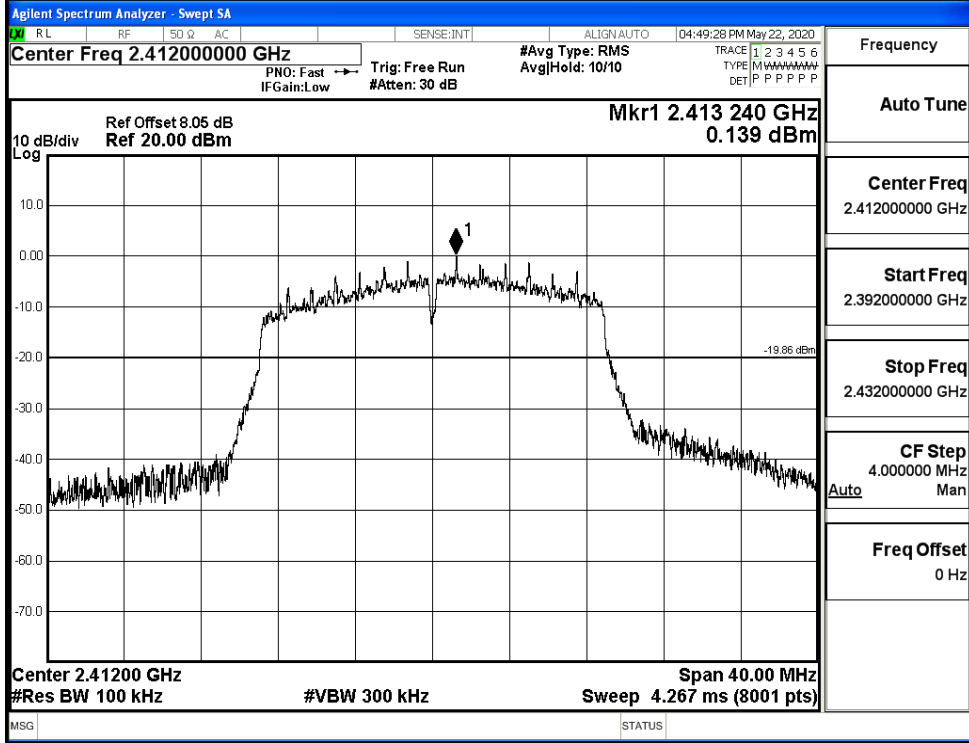


Puw/11G/HCH

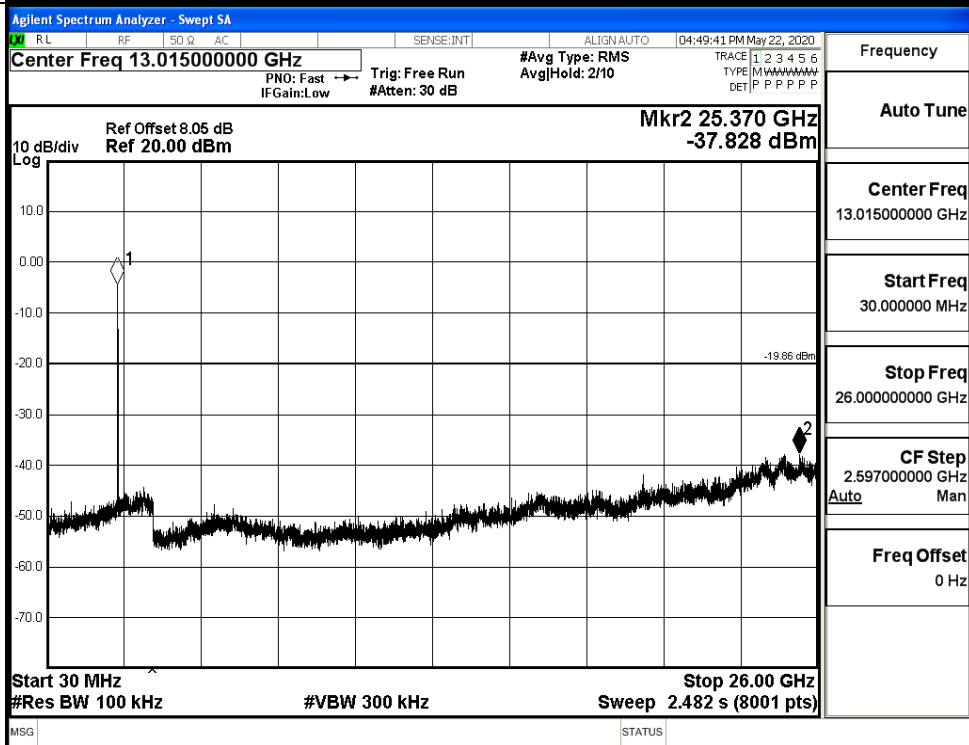


11N20SISO\_LCH\_Graphs

Pref/11N20SIS  
O/LCH

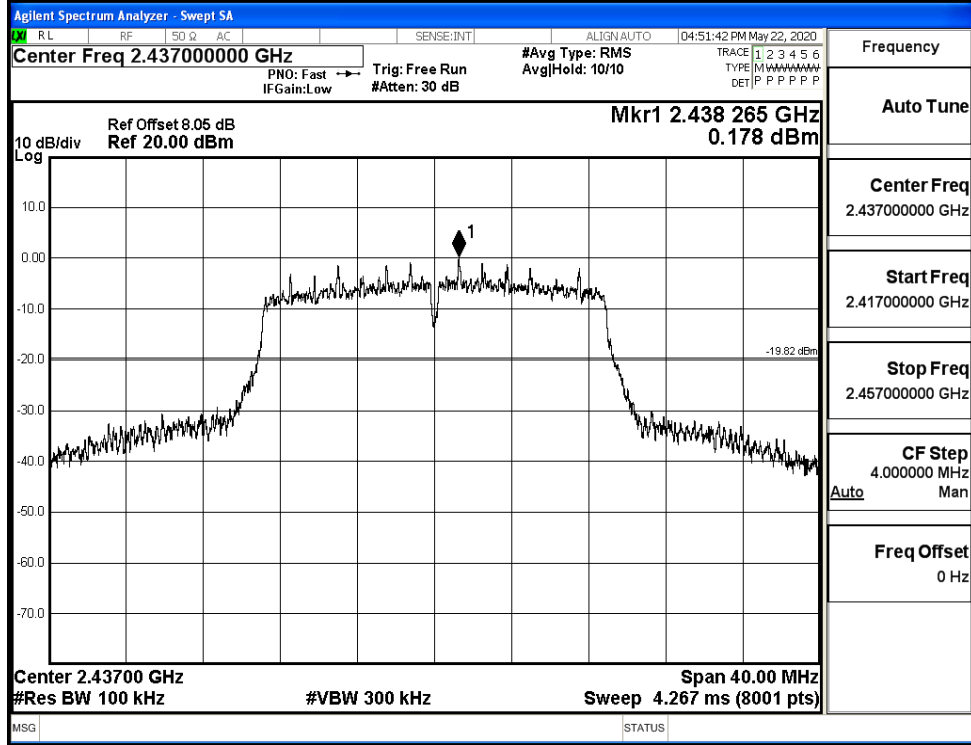


Puw/11N20  
SISO/LCH

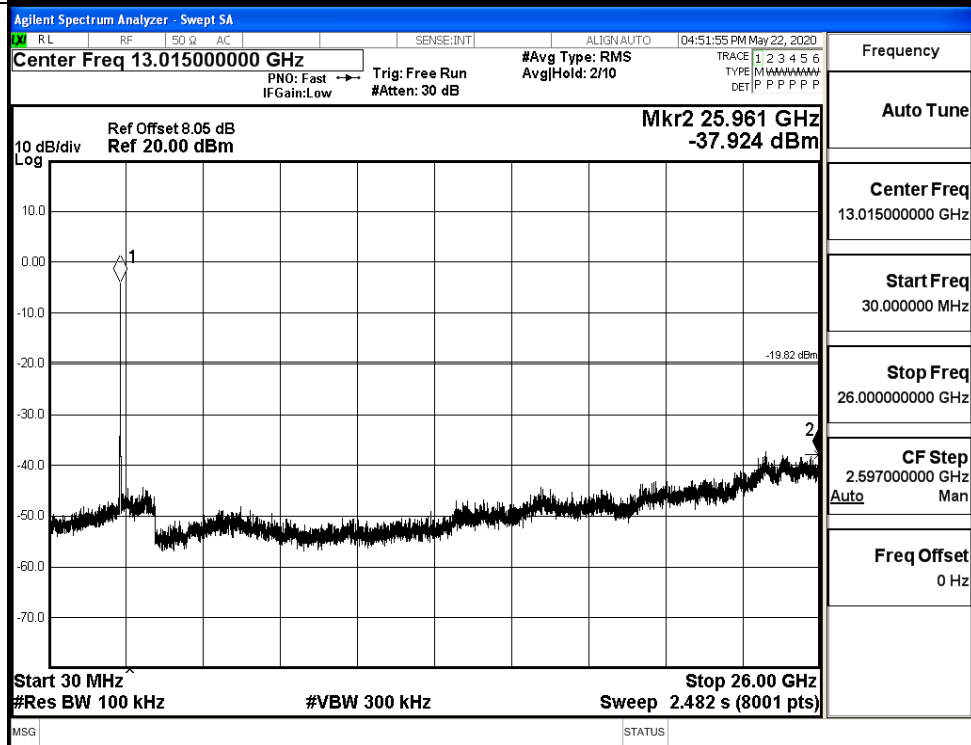


11N20SISO\_MCH\_Graphs

Pref/11N20  
SISO/MCH

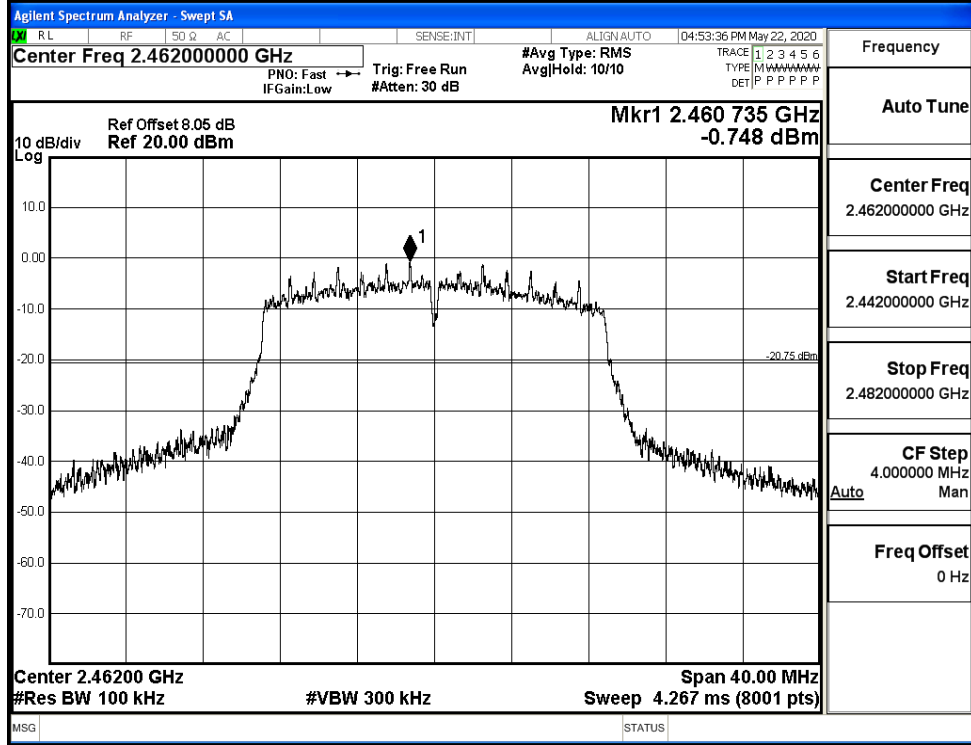


Puw/11N20  
SISO/MCH

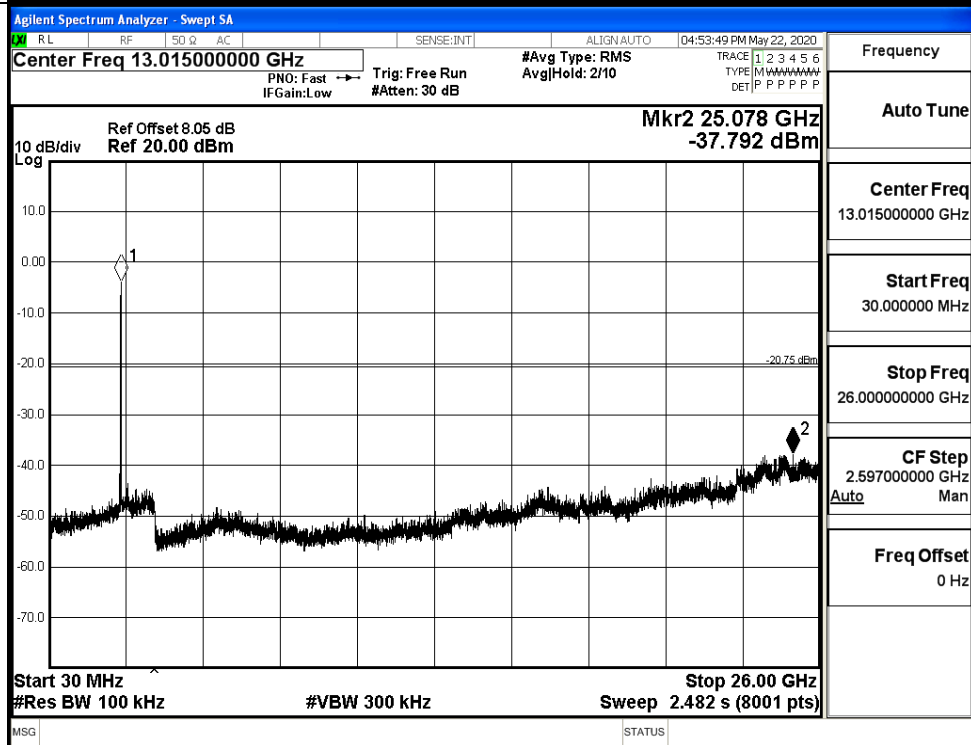


11N20SISO\_HCH\_Graphs

Pref/11N20  
SISO/HCH

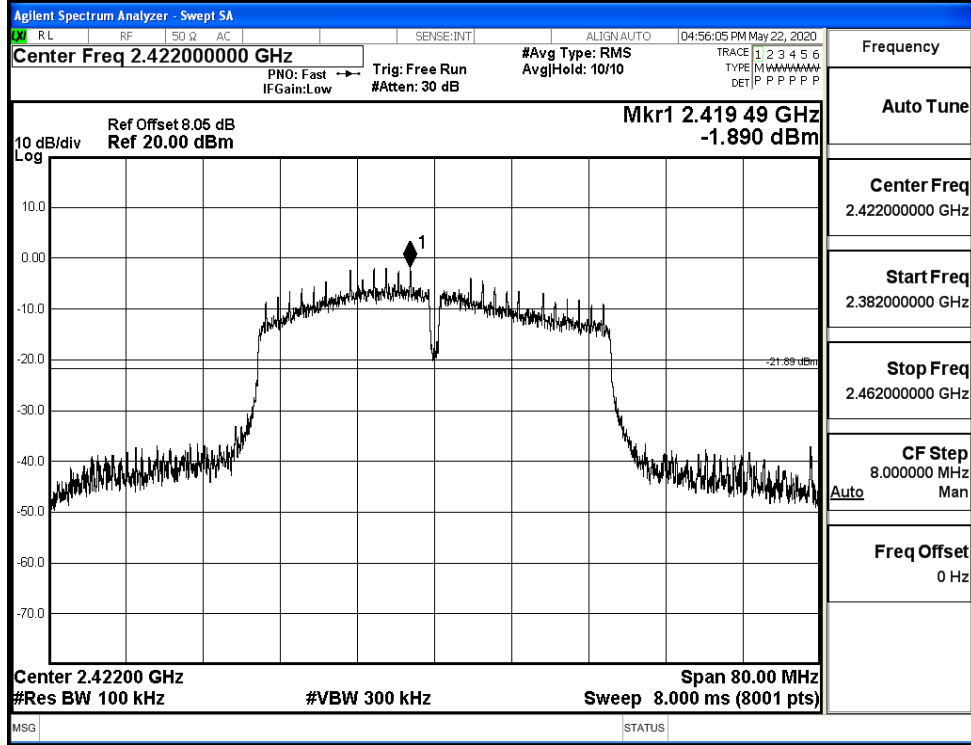


Puw/11N20  
SISO/HCH

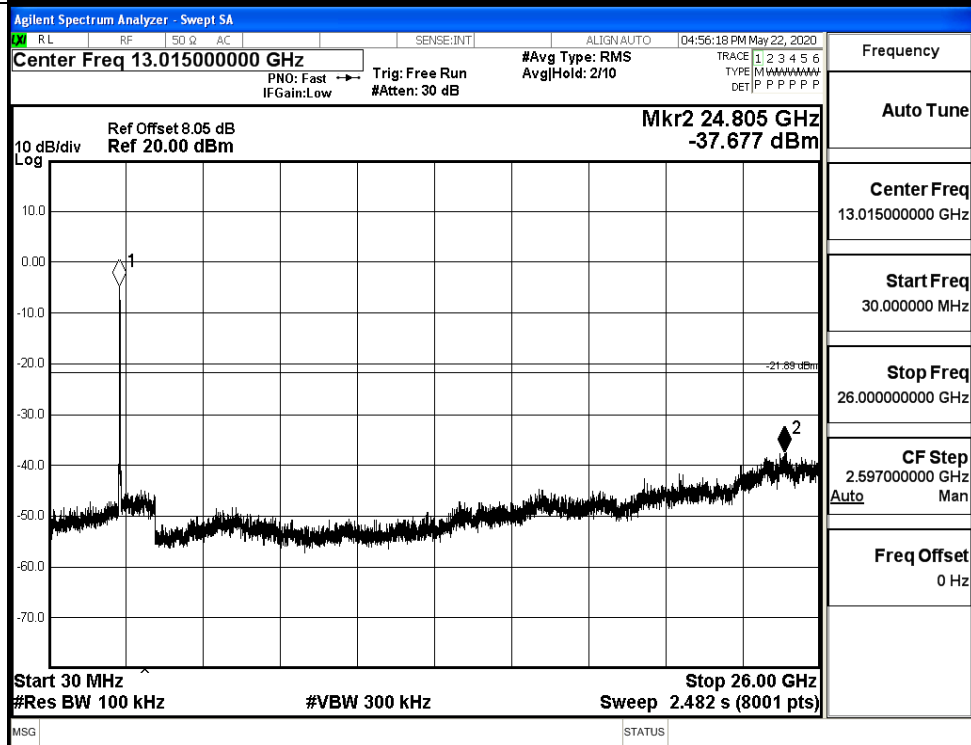


11N40SISO\_LCH\_Graphs

Pref/11N40  
SISO/LCH

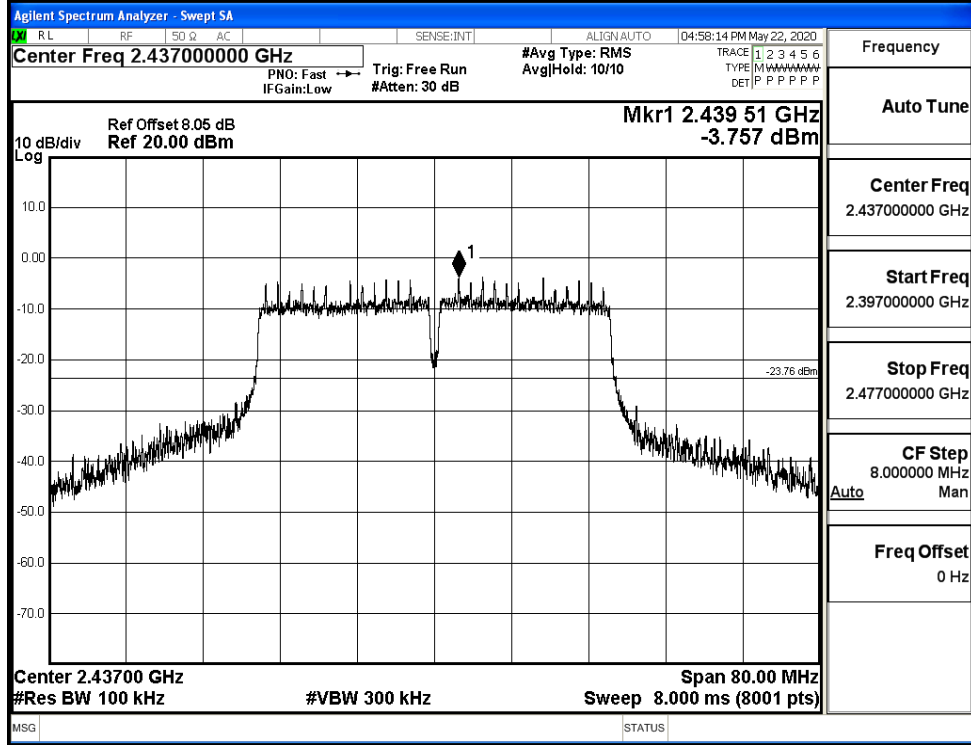


Puw/11N40  
SISO/LCH

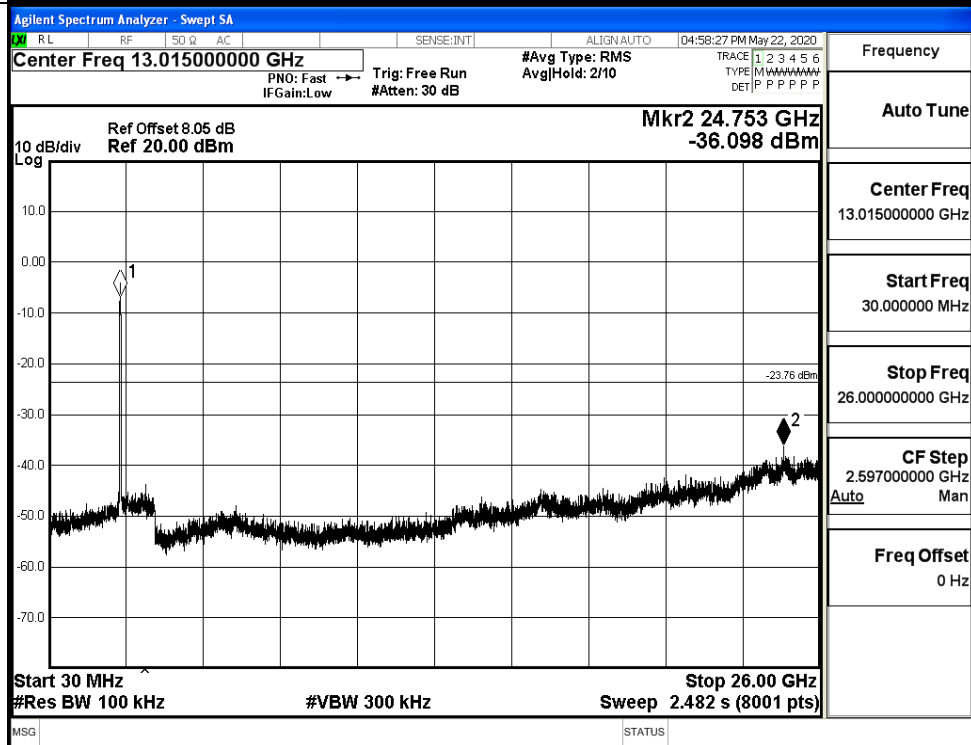


11N40SISO\_MCH\_Graphs

Pref/11N40  
SISO/MCH

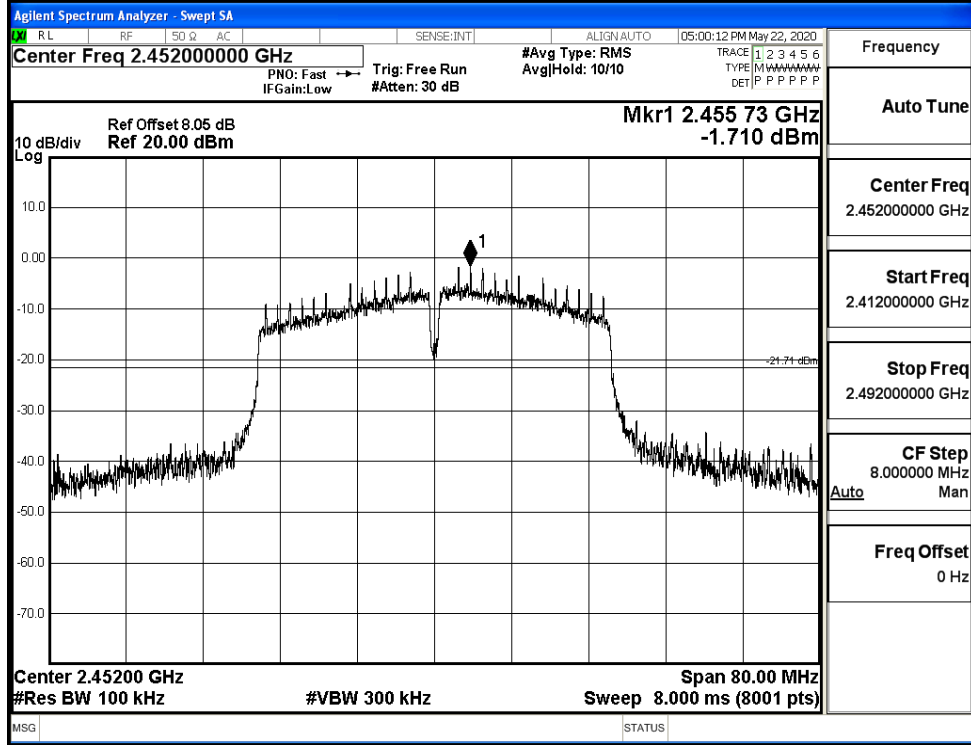


Puw/11N40  
SISO/MCH

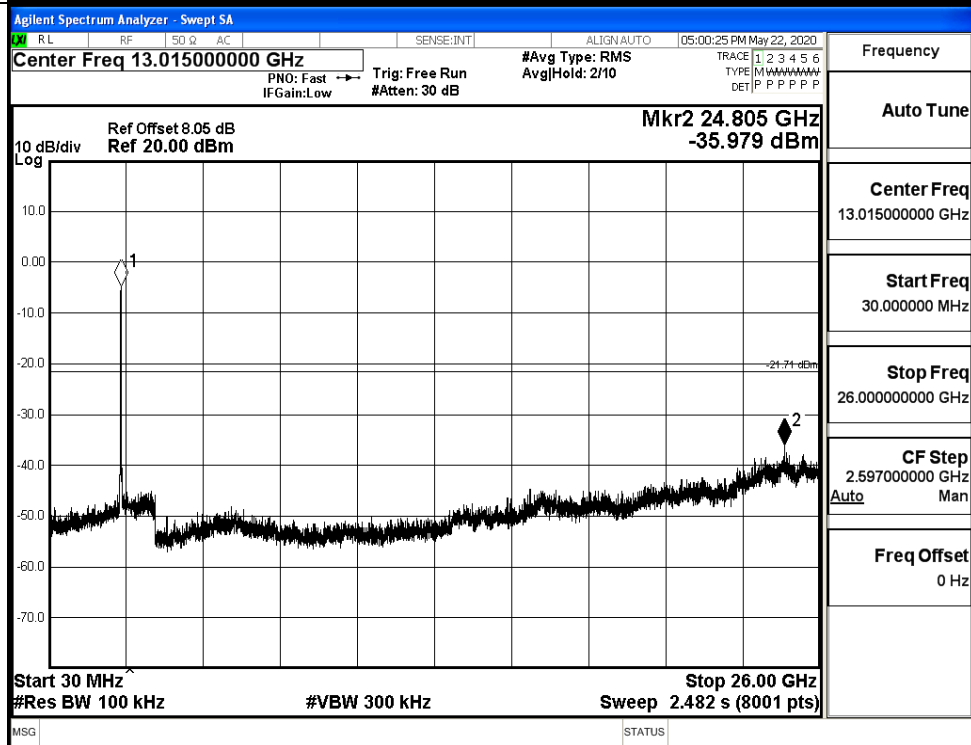


11N40SISO\_HCH\_Graphs

Pref/11N40  
SISO/HCH

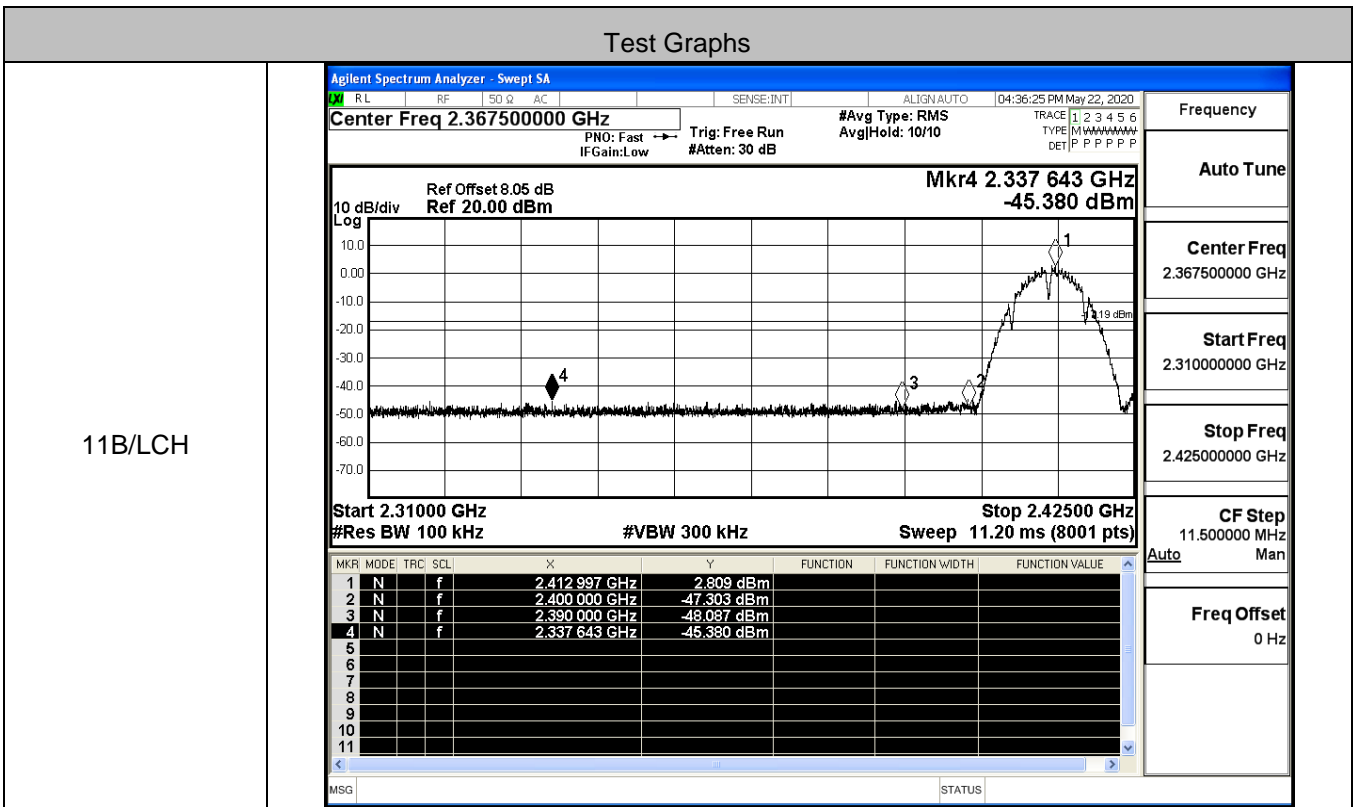


Puw/11N40  
SISO/HCH



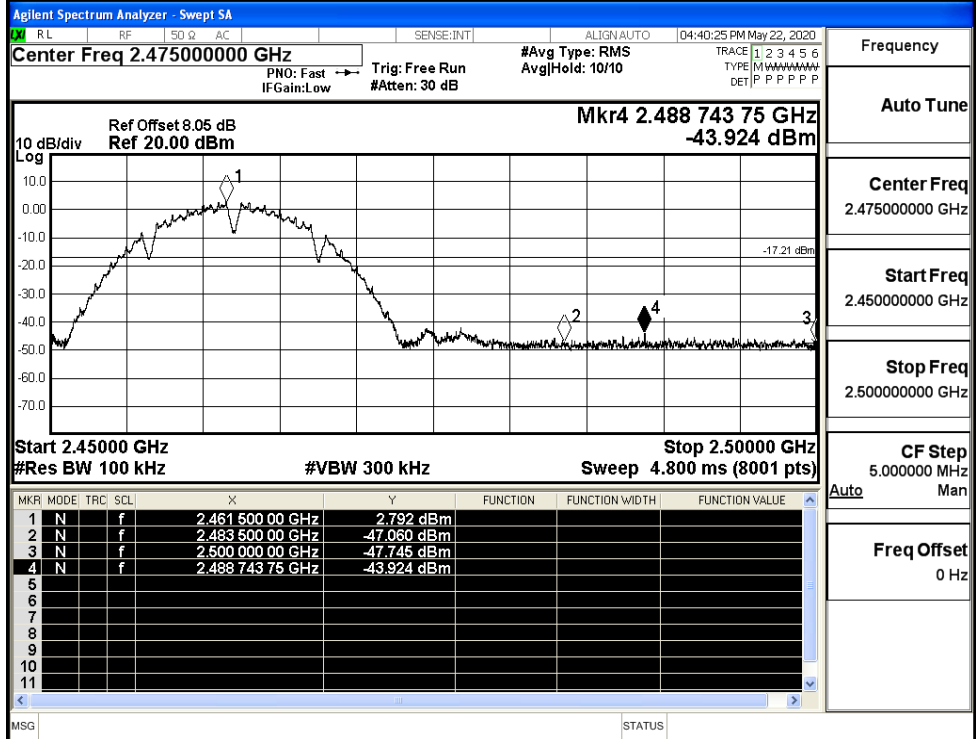
### A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	2.809	-45.380	-17.19	PASS
	HCH	2.792	-43.924	-17.21	PASS
11G	LCH	-0.090	-44.546	-20.09	PASS
	HCH	-0.438	-43.990	-20.44	PASS
11N20SISO	LCH	0.474	-44.968	-19.53	PASS
	HCH	-0.680	-44.336	-20.68	PASS
11N40SISO	LCH	-2.060	-38.233	-22.06	PASS
	HCH	-1.647	-36.498	-21.65	PASS



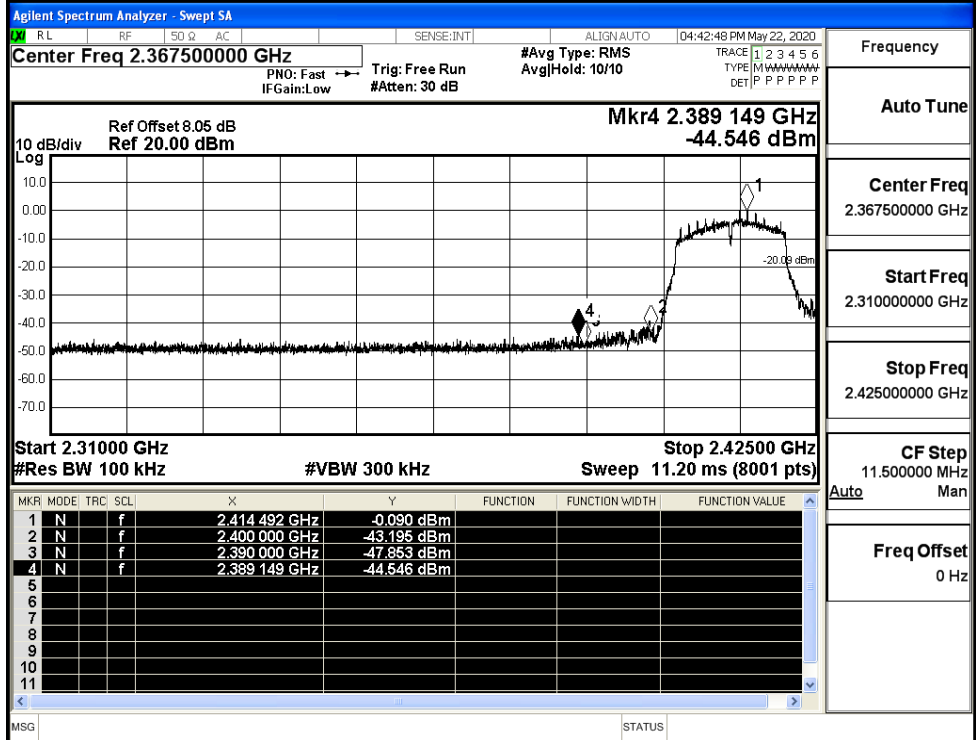


11B/HCH



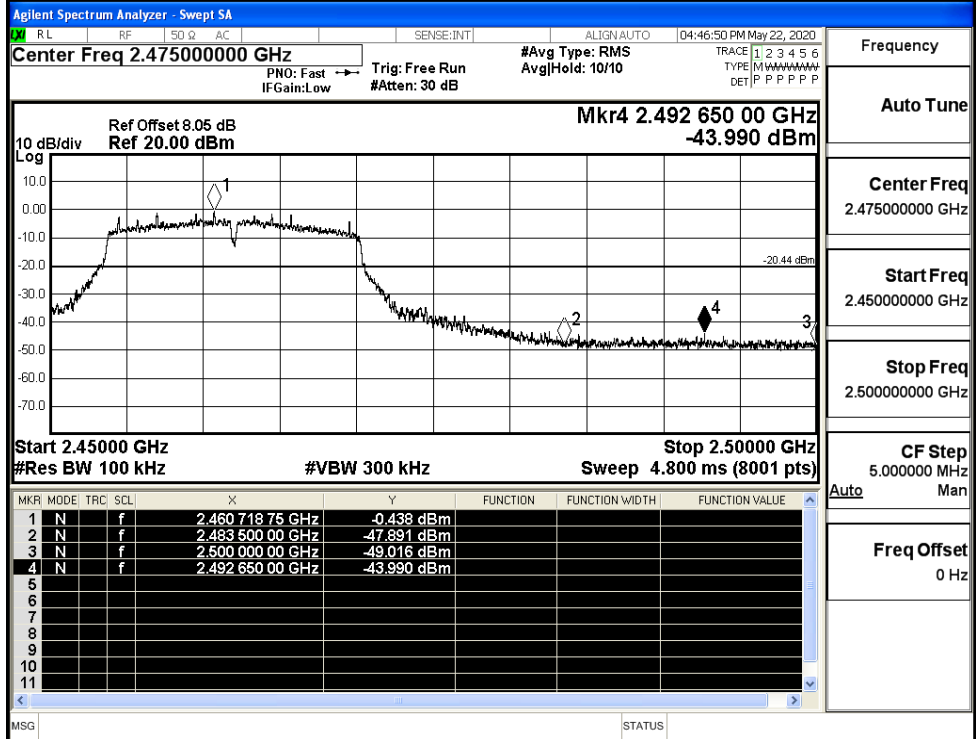
Frequency	2.47500000 GHz
Auto Tune	
Center Freq	2.47500000 GHz
Start Freq	2.45000000 GHz
Stop Freq	2.50000000 GHz
CF Step	5.000000 MHz
Freq Offset	0 Hz

11G/LCH



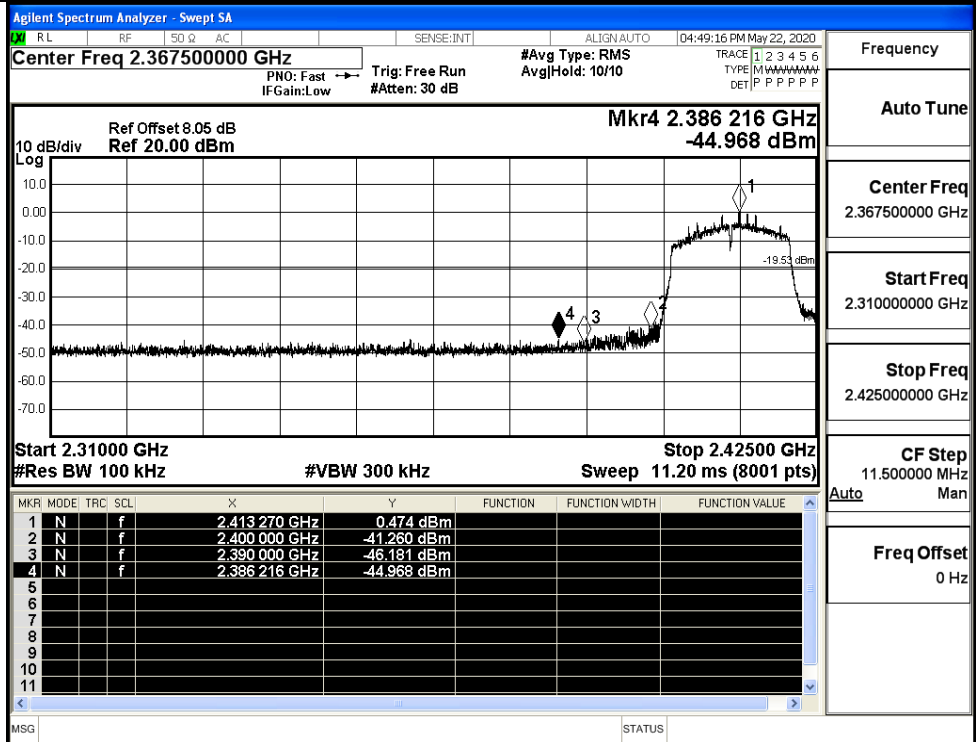
Frequency	2.36750000 GHz
Auto Tune	
Center Freq	2.36750000 GHz
Start Freq	2.31000000 GHz
Stop Freq	2.42500000 GHz
CF Step	11.500000 MHz
Freq Offset	0 Hz

11G/HCH



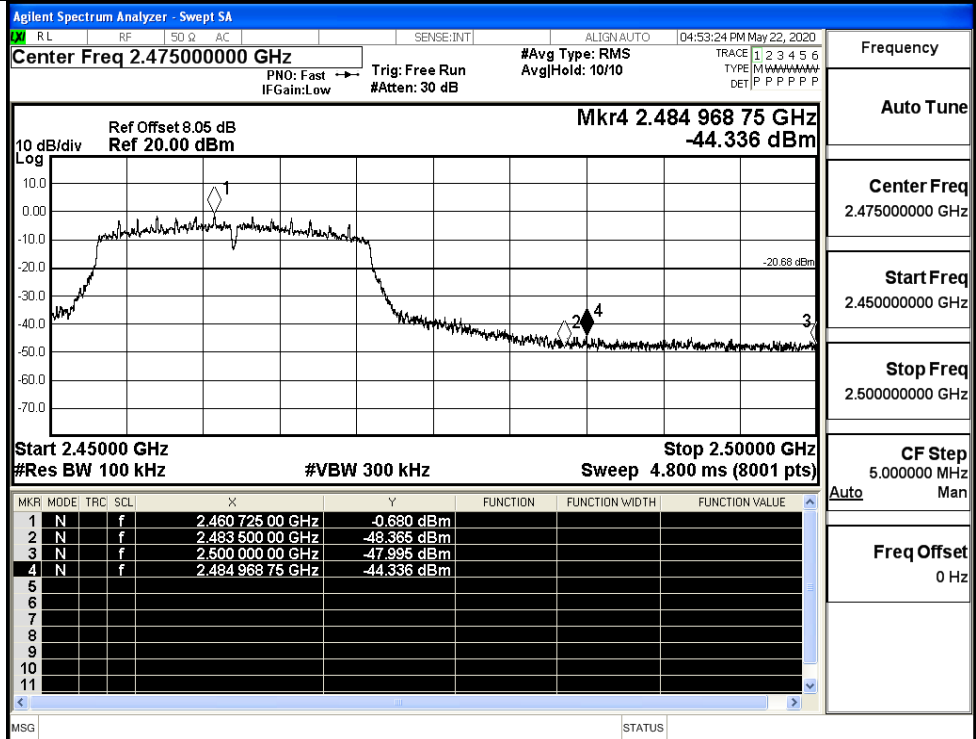
Frequency	
Auto Tune	
Center Freq	2.47500000 GHz
Start Freq	2.45000000 GHz
Stop Freq	2.50000000 GHz
CF Step	5.000000 MHz
Freq Offset	0 Hz

11N20SISO/LCH



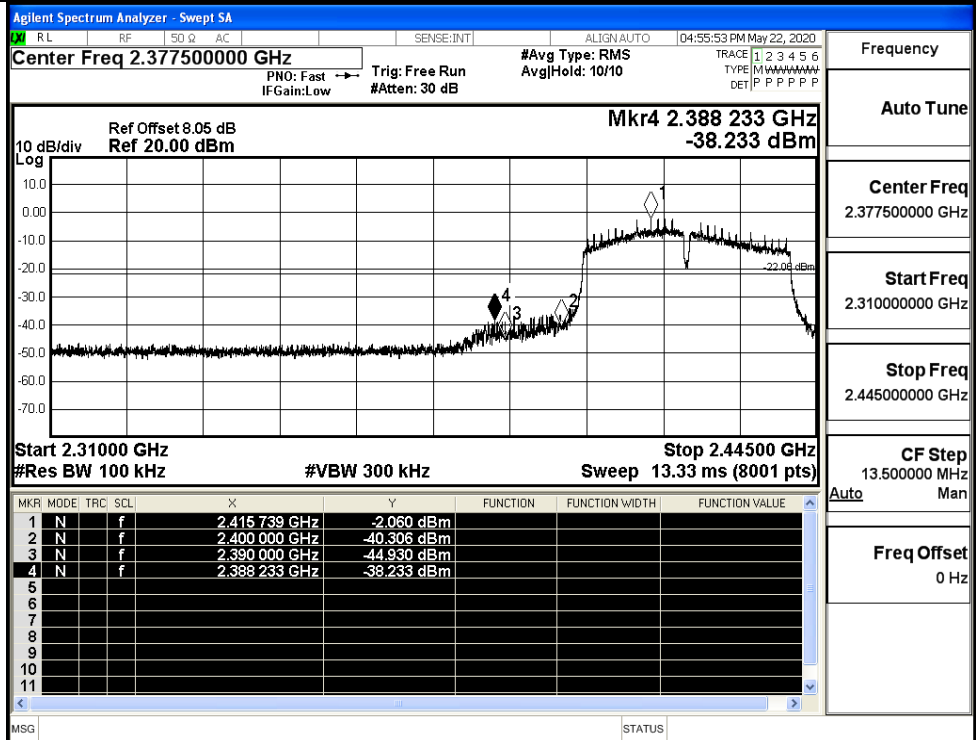
Frequency	
Auto Tune	
Center Freq	2.36750000 GHz
Start Freq	2.31000000 GHz
Stop Freq	2.42500000 GHz
CF Step	11.500000 MHz
Freq Offset	0 Hz

11N20SISO/HCH



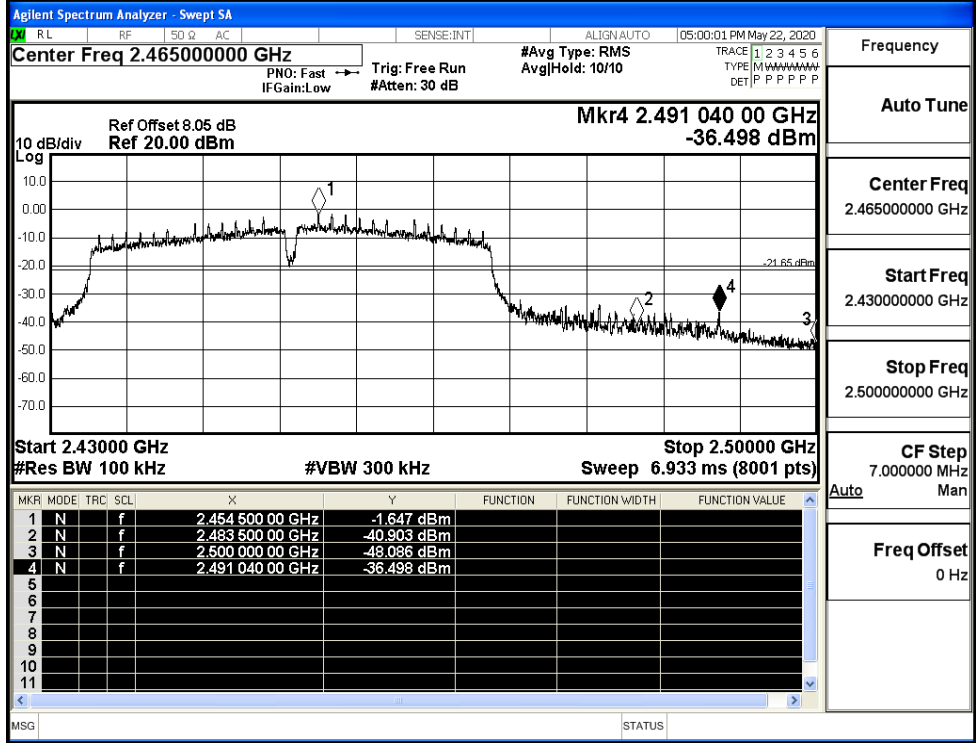
Frequency	2.47500000 GHz
Auto Tune	
Center Freq	2.47500000 GHz
Start Freq	2.45000000 GHz
Stop Freq	2.50000000 GHz
CF Step	5.000000 MHz
Freq Offset	0 Hz

11N40SISO/LCH



Frequency	2.37750000 GHz
Auto Tune	
Center Freq	2.37750000 GHz
Start Freq	2.31000000 GHz
Stop Freq	2.44500000 GHz
CF Step	13.500000 MHz
Freq Offset	0 Hz

11N40SISO/HCH

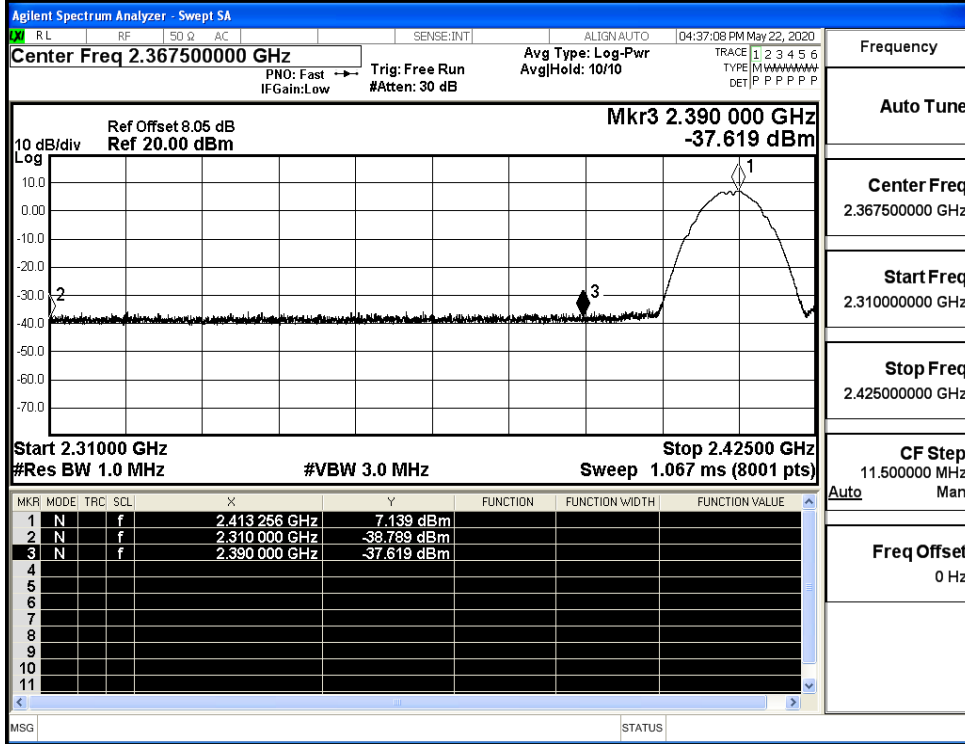


## A.7 Restrict-band band-edge measurements

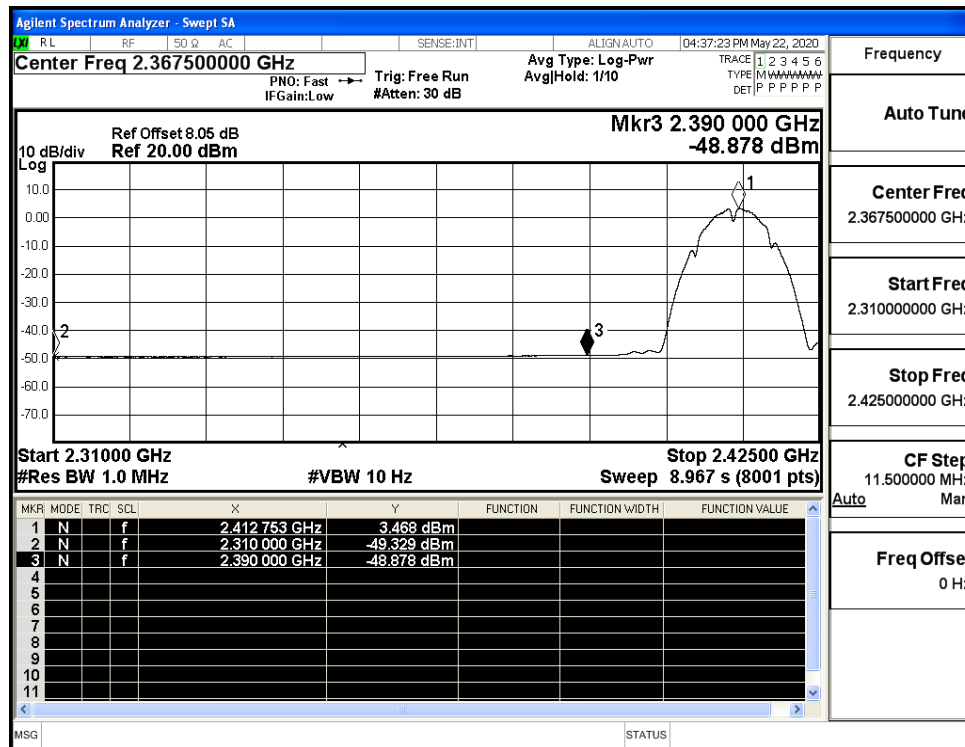
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
11B	2412	Ant1	2310.0	-38.79	2.0	0	58.47	PEAK	74	PASS
	2412	Ant1	2310.0	-49.33	2.0	0	47.93	AV	54	PASS
	2412	Ant1	2390.0	-37.62	2.0	0	59.64	PEAK	74	PASS
	2412	Ant1	2390.0	-48.88	2.0	0	48.38	AV	54	PASS
	2462	Ant1	2483.5	-37.73	2.0	0	59.53	PEAK	74	PASS
	2462	Ant1	2483.5	-48.44	2.0	0	48.81	AV	54	PASS
	2462	Ant1	2500.0	-37.77	2.0	0	59.49	PEAK	74	PASS
	2462	Ant1	2500.0	-48.32	2.0	0	48.94	AV	54	PASS
11G	2412	Ant1	2310.0	-37.82	2.0	0	59.44	PEAK	74	PASS
	2412	Ant1	2310.0	-49.31	2.0	0	47.95	AV	54	PASS
	2412	Ant1	2390.0	-35.90	2.0	0	61.36	PEAK	74	PASS
	2412	Ant1	2390.0	-48.22	2.0	0	49.03	AV	54	PASS
	2462	Ant1	2483.5	-37.43	2.0	0	59.83	PEAK	74	PASS
	2462	Ant1	2483.5	-47.54	2.0	0	49.71	AV	54	PASS
	2462	Ant1	2500.0	-37.24	2.0	0	60.02	PEAK	74	PASS
	2462	Ant1	2500.0	-48.35	2.0	0	48.91	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-39.69	2.0	0	57.56	PEAK	74	PASS
	2412	Ant1	2310.0	-49.41	2.0	0	47.85	AV	54	PASS
	2412	Ant1	2390.0	-37.98	2.0	0	59.28	PEAK	74	PASS
	2412	Ant1	2390.0	-48.53	2.0	0	48.73	AV	54	PASS
	2462	Ant1	2483.5	-36.54	2.0	0	60.71	PEAK	74	PASS
	2462	Ant1	2483.5	-47.35	2.0	0	49.91	AV	54	PASS
	2462	Ant1	2500.0	-38.08	2.0	0	59.18	PEAK	74	PASS
	2462	Ant1	2500.0	-48.34	2.0	0	48.92	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-39.24	2.0	0	58.01	PEAK	74	PASS
	2422	Ant1	2310.0	-49.40	2.0	0	47.86	AV	54	PASS

	2422	Ant1	2390.0	-29.79	2.0	0	67.47	PEAK	74	PASS
	2422	Ant1	2390.0	-44.85	2.0	0	52.41	AV	54	PASS
	2452	Ant1	2483.5	-28.40	2.0	0	68.86	PEAK	74	PASS
	2452	Ant1	2483.5	-43.33	2.0	0	53.93	AV	54	PASS
	2452	Ant1	2500.0	-37.33	2.0	0	59.93	PEAK	74	PASS
	2452	Ant1	2500.0	-48.18	2.0	0	49.08	AV	54	PASS

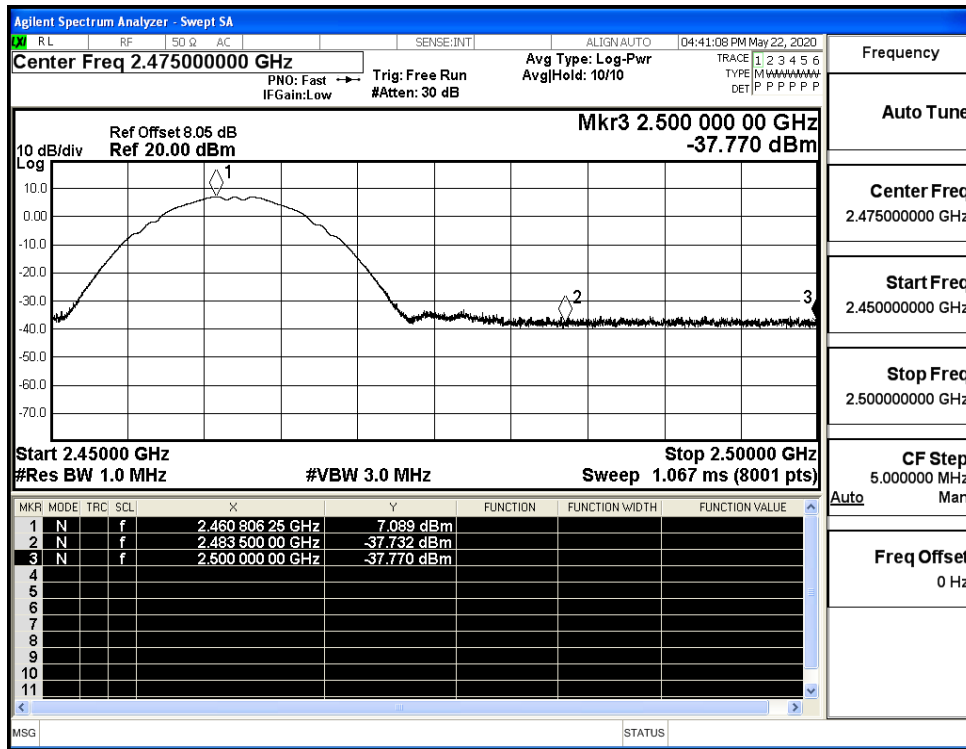
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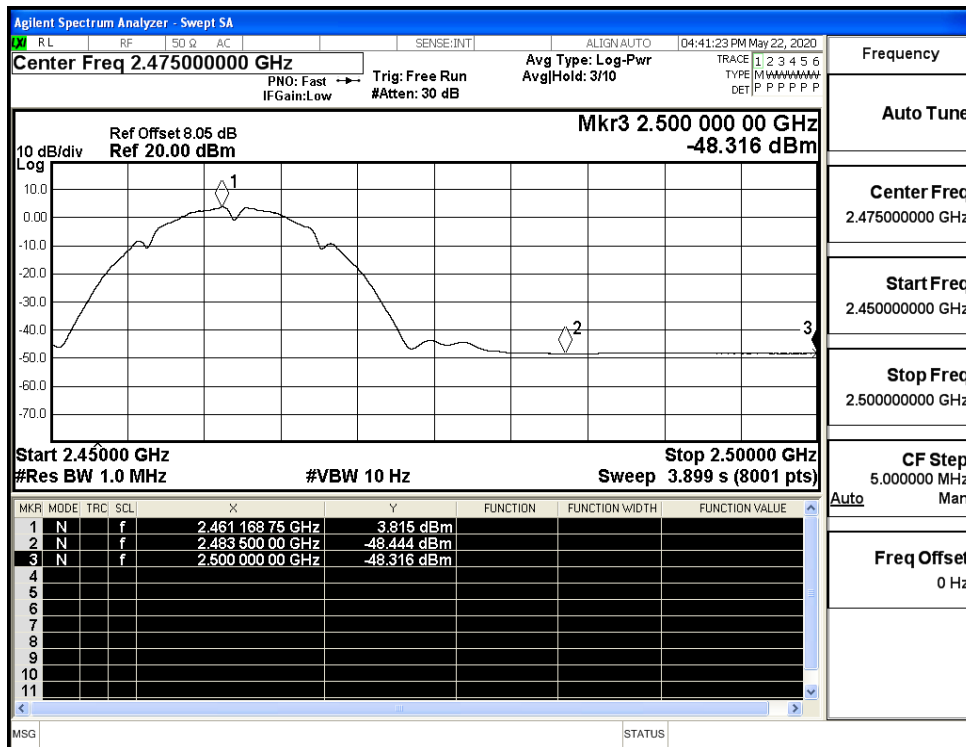
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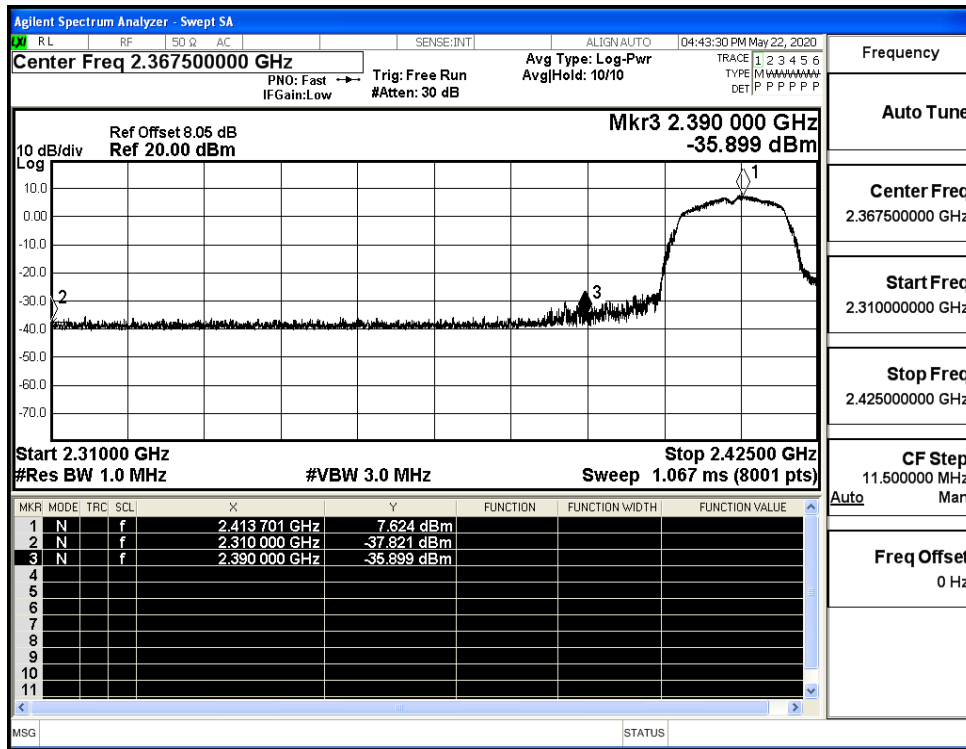


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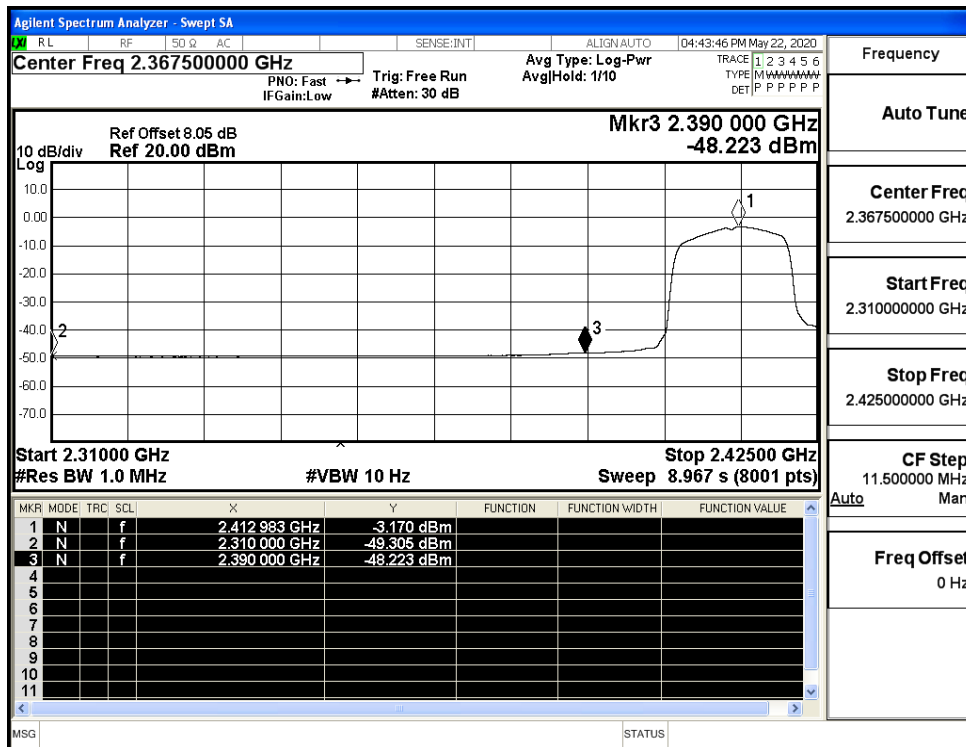




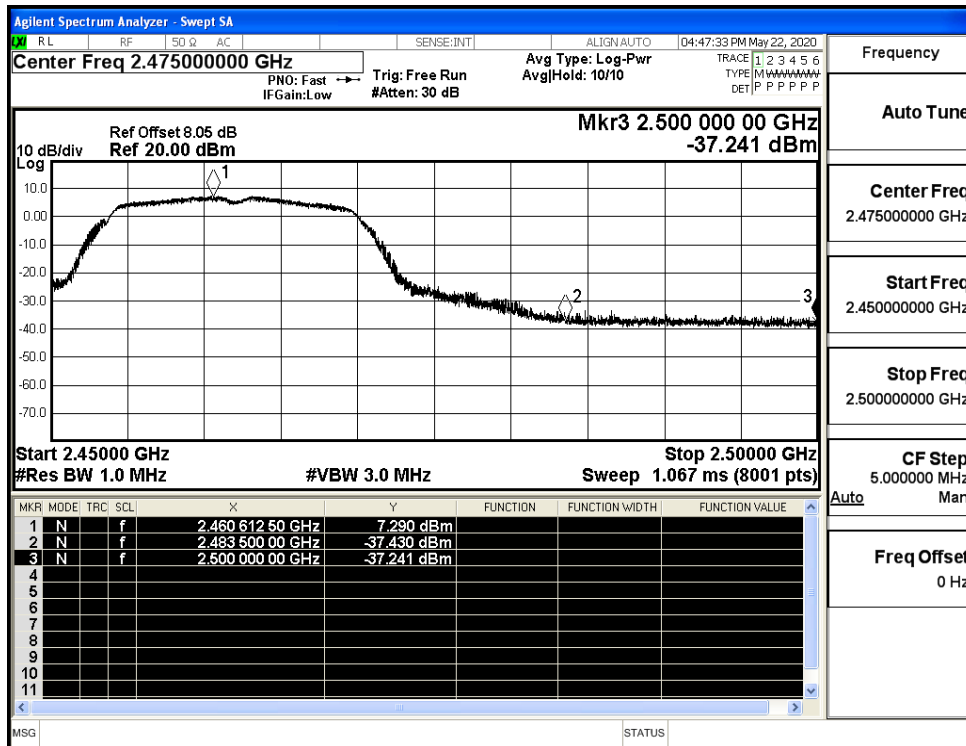
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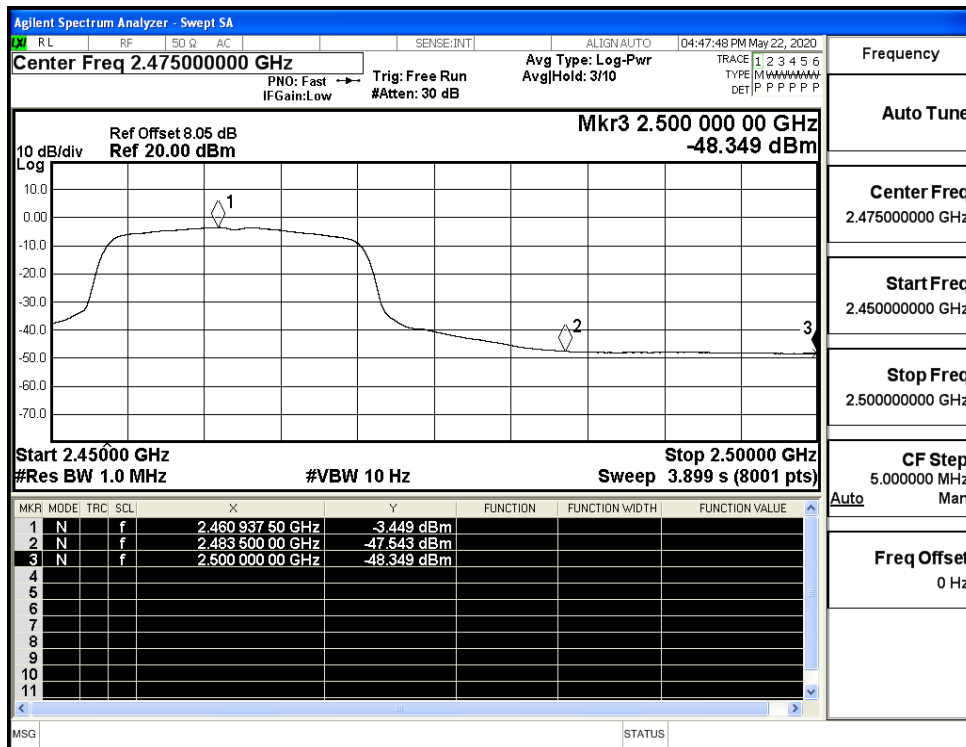
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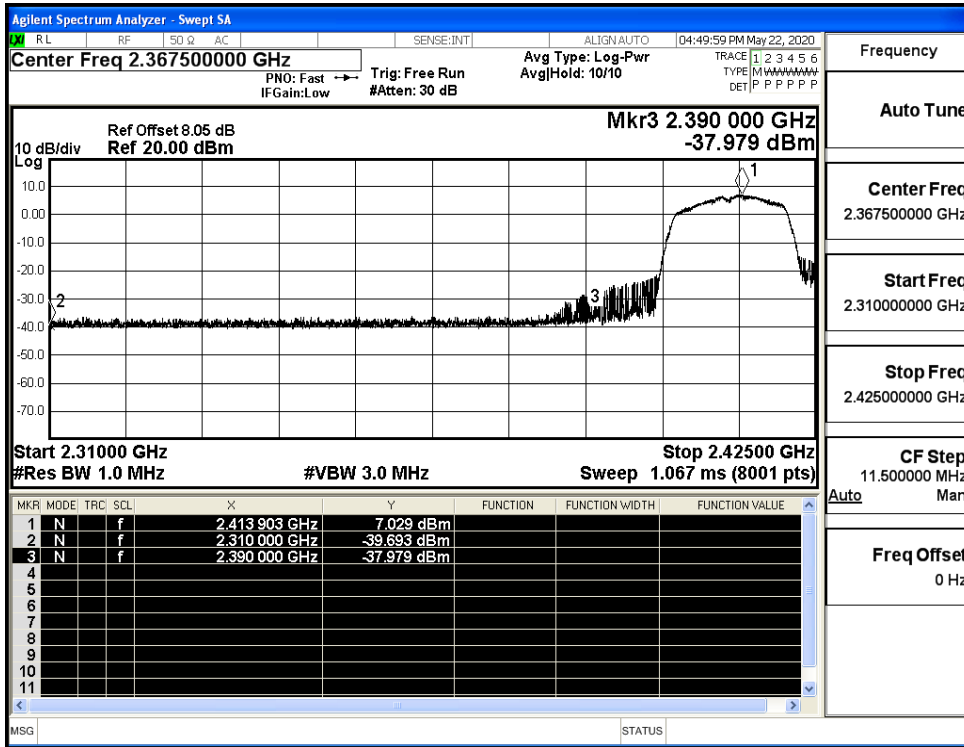
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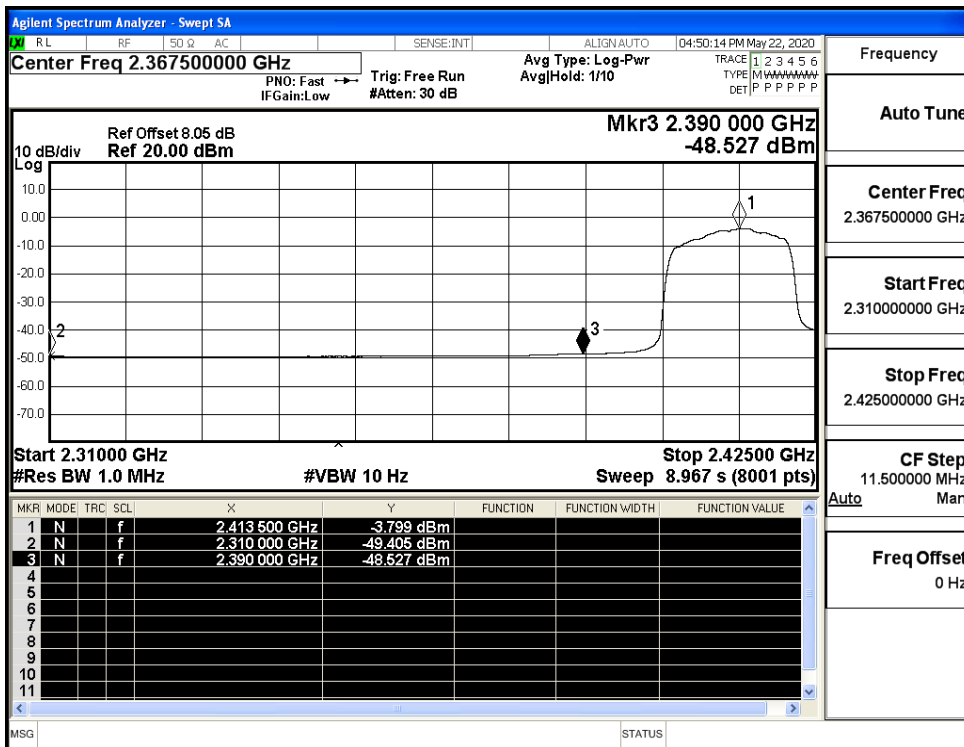
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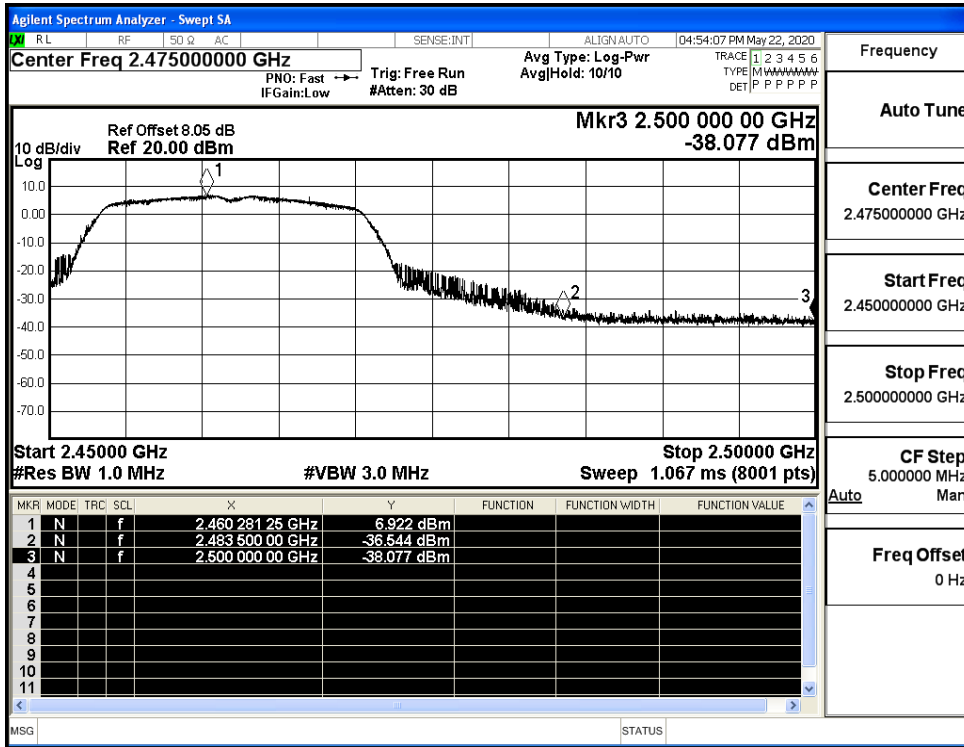
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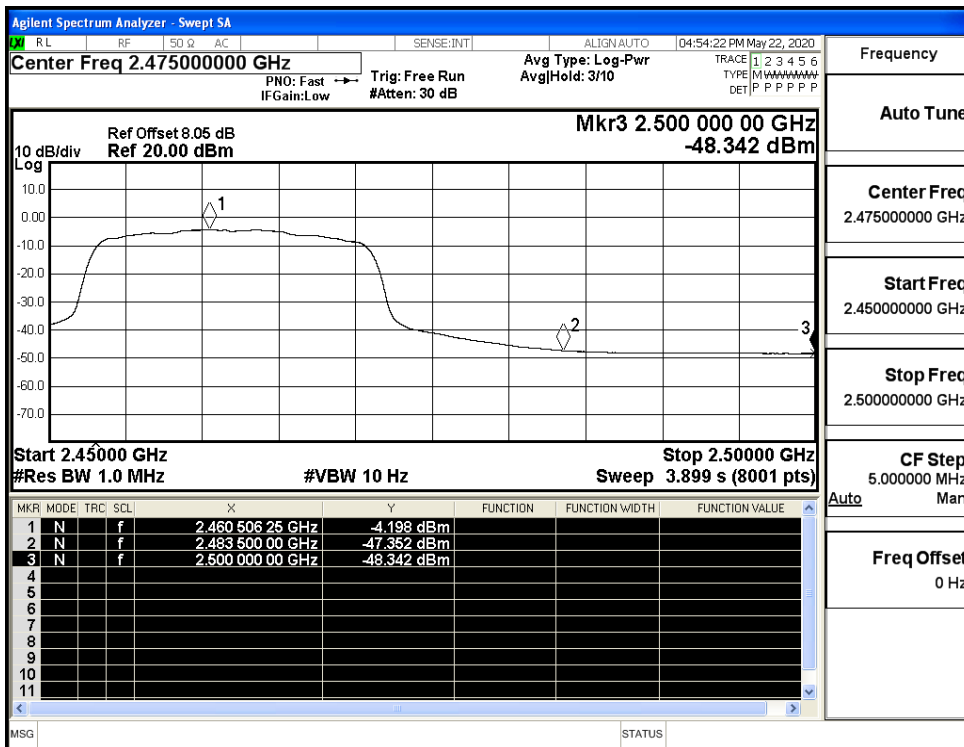
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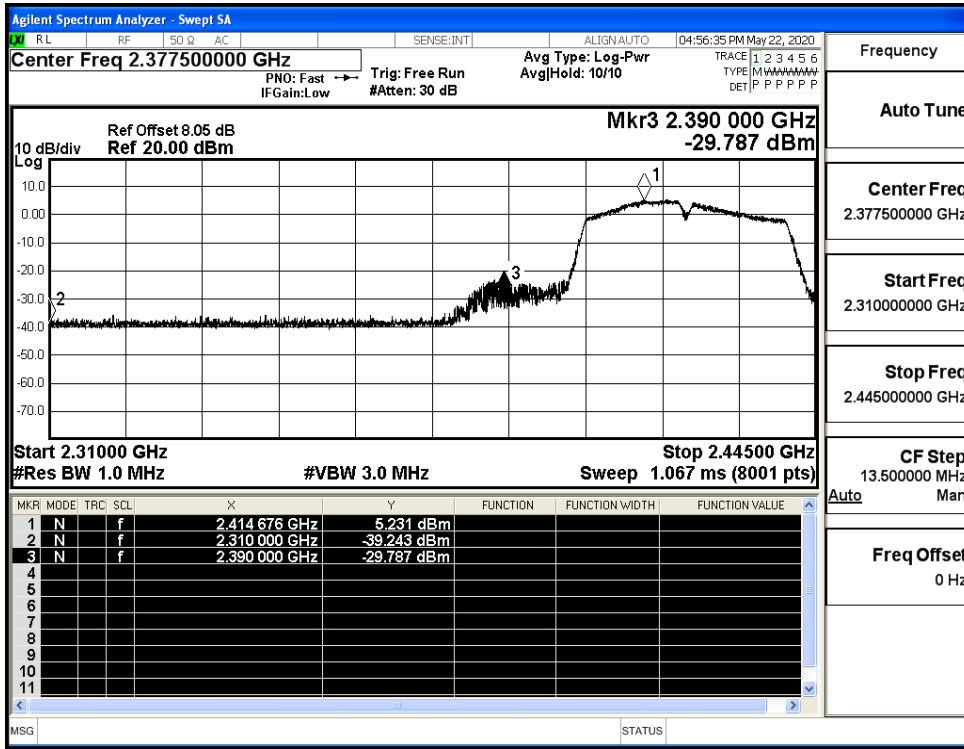
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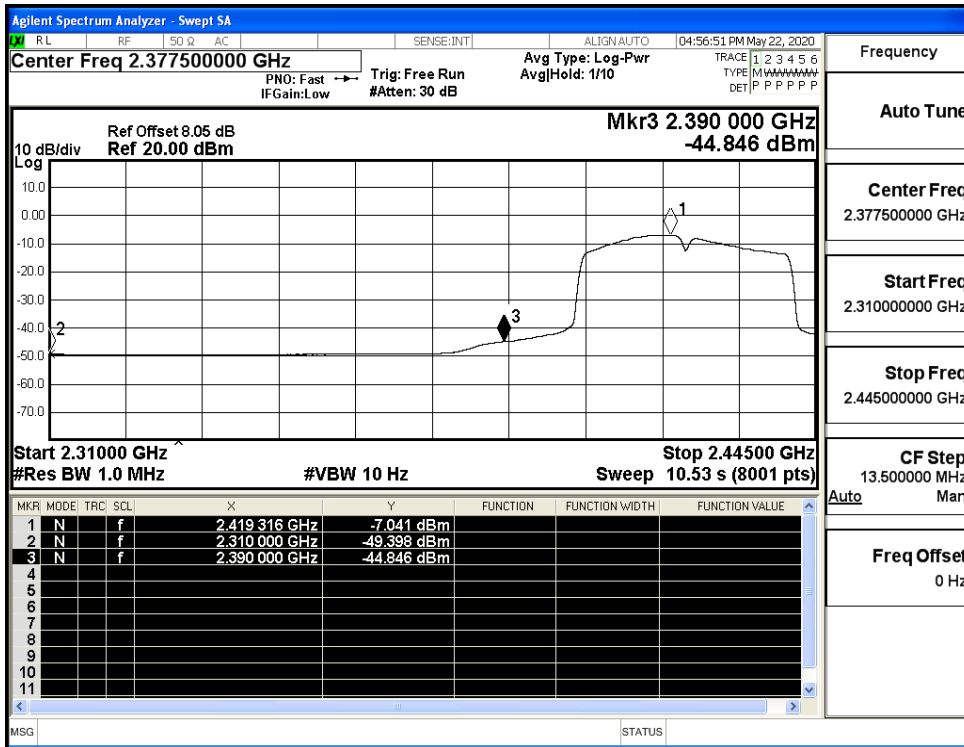
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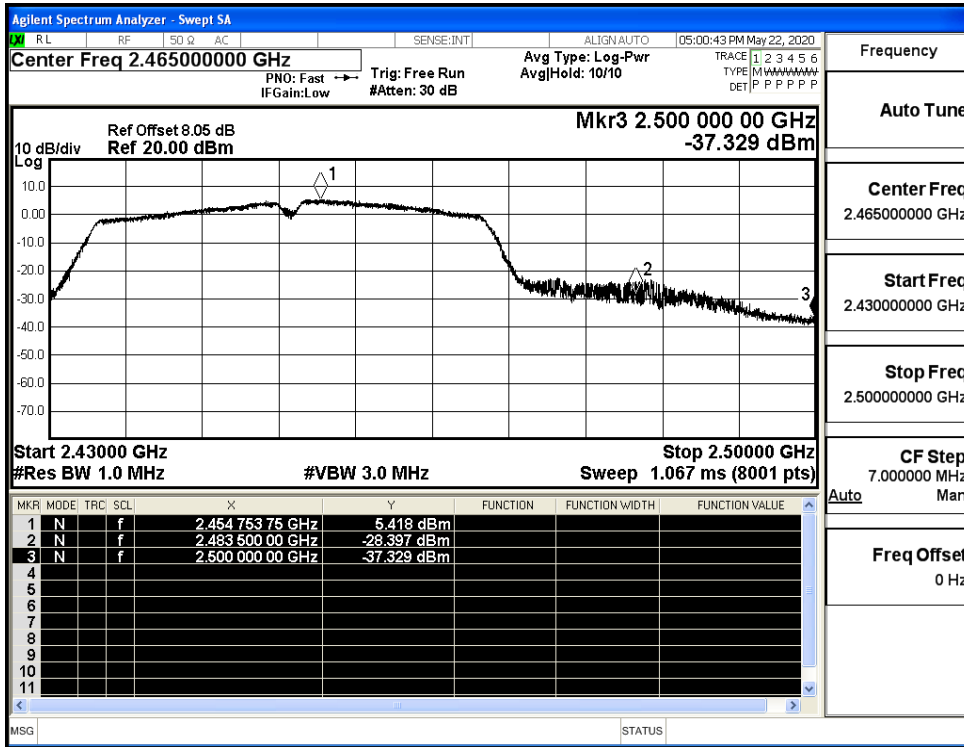
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Restrict-band band-edge measurements\_11N40SISO\_2422\_Ant1\_AV



Restrict-band band-edge measurements\_11N40SISO\_2452\_Ant1\_PEAK



Restrict-band band-edge measurements\_11N40SISO\_2452\_Ant1\_AV

